Providing education and training to promote diversity and improved technology for all involved in the treatment of cardiac arrhythmia patients.
A one-stop educational resource for healthcare professionals

Promoting best practice in AF care by professionals, for professionals

Access and share:
Information, educational resources, models of management guides to implement and commission AF services

www.heartofaf.org
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Heart Rhythm Congress 2013
is endorsed by:

Arrhythmia Alliance®
The Heart Rhythm Charity
www.heartrhythmcharity.org.uk

AFAssociation®
www.afa.org.uk

www.bsh.org.uk

www.HRSONline.org

Heart Rhythm UK
www.heartrhythmuk.org.uk

STARS
Syncope Trust And Reflex anoxic Seizures®
www.stars.org.uk
Welcome to
Heart Rhythm Congress 2013

On behalf of the HRC 2013 Executive Committee, we are delighted to welcome you to our eighth annual congress. Last year marked a major change with the move to The International Convention Centre which worked well and we had very positive feedback from the attendees. We plan to build on this change this year with additional interactive sessions, and lunchtime “entertainment.”

We have reviewed last year’s event and re-designed the exhibition hall and have reverted back to a gala dinner on Tuesday but with less speeches!

The popular Cases and Traces session and the Young Investigators Competition presentations continue as always. We have had a significant increase in the number of abstracts submitted from both doctors and allied professionals so we have added a further oral abstract session and increased the number of posters. As usual we have an impressive faculty, with a number of international speakers.

We would like to thank all members of the Scientific and Organising Committees for their help and enthusiasm in organising this congress.

Finally, we have set up a Twitter account (@HRCongress2013) which we hope you will follow to ensure you keep up to date with all that is happening at HRC 2013.

We hope you will find it worthwhile, educational and above all, enjoyable.

Nick Linker
Programme Director

Trudie Lobban MBE
Chair, Organising Committee
Executive Committee

Dr Nicholas Linker  
Programme Director  
Honorary Secretary & President Elect, Heart Rhythm UK

Mrs Trudie Lobban MBE  
Chair, Organising Committee  
Founder & CEO, Arrhythmia Alliance

Prof A John Camm  
President, Arrhythmia Alliance

Dr Stephen Furniss  
President, Heart Rhythm UK
Scientific Committee

Abstracts
Prof Andre Ng

Heart Rhythm Trainees
Dr Aaisha Opel

AF Association
Prof Richard Schilling

Implantable Devices
Dr Andrew Turley
Dr Chris Plummer
Dr Nick Linker

Allied Professionals
Stuart Allen
Angela Griffiths
Jayne Mudd

Paediatric
Dr Jan Till
Dr Orhan Uzun

Basic Science
Prof Andre Ng

STARS
Prof Richard Sutton

Cases & Traces
Dr Kim Rajappan

Organising Committee

Mrs Trudie Lobban MBE
Chair, Organising Committee

Miss Harriet Byron
Mrs Jenni Cozon
Mrs Caroline Holmes
Miss Rebecca Hughes
Mrs Joanne Jerrome
Miss Sara Newbold

Electrophysiology
Dr Derick Todd
Abstract Markers

The HRC Executive Committee wishes to express its gratitude to the following for their help in abstract selection:

Mr Stuart Allen
Prof Clifford Garratt
Dr Andrew Grace
Dr Pier Lambiase
Dr Janet McComb
Mrs Jayne Mudd
Prof Andre Ng
Dr Kim Rajappan
Dr Derick Todd
Dr Arthur Yue

Arrhythmia Alliance Executive Committee

Prof A John Camm, President
Dr Adam Fitzpatrick, Medical Director
Pierre Chauvineau
Dr D Wyn Davies
Dr Sabine Ernst
Mr Nigel Farrell
Dr Matthew Fay
Prof Michael Gammage
Mrs Angela Griffiths
Dr Guy Haywood
Sue Jones
Dr Gerry Kaye
Dr Nicholas Linker
Mrs Trudie Lobban MBE
Nicola Meldrum
Prof John Morgan
Mrs Jayne Mudd  
Dr Francis Murgatroyd  
Dr Kim Rajappan  
Prof Richard Schilling  
Dr Graham Stuart  
Mrs Jenny Tagney  
Paul Turner

Heart Rhythm UK Council Members

Dr Stephen Furniss, President  
Dr Nicholas Linker, Secretary & President Elect  
Dr Mark Earley, Treasurer  
Dr Adrian Morley-Davies, Representative for Devices  
Dr Francis Murgatroyd, Representative for Devices  
Dr Stephen Murray, Representative for Interventional EP  
Dr Mark O’Neill, Representative for Interventional EP  
Stuart Allen, Representative for Physiologists  
Sophie Blackman, Representative for Physiologists  
Carole Joyce, Representative for Physiologists  
Karen Lascelles, Representative for Physiologists  
Jayne Mudd, Arrhythmia Nurse Representative
You are invited to join friends and colleagues at the **HRC Gala Dinner**

**Tuesday 22\textsuperscript{nd} October 2013**

The International Convention Centre (ICC), Birmingham - Hall 4

**Dress code: Smart attire**

**Time: 7pm – Midnight**

Three course meal with dinner entertainment, followed by live music from ‘Mister Shakes’

Visit the HRC registration desk for ticket availability.
General Information

Abstracts: All short listed abstracts (oral communications and posters) will be published in Europace, Volume 15, Supplement 4, November 2013.

All delegates are invited to come and view the posters which are displayed in the poster area in Hall 3.

Badge Information:

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Faculty</td>
</tr>
<tr>
<td>Blue</td>
<td>3 Day Pass</td>
</tr>
<tr>
<td>Green</td>
<td>1 or 2 Day Pass</td>
</tr>
<tr>
<td>Orange</td>
<td>Paediatric Study Day</td>
</tr>
</tbody>
</table>

For security reasons, badges MUST be worn at all times to gain admission to the exhibition hall and the scientific sessions.

Please consider your badge as a valuable ticket. Lost badges are replaced against the payment of a handling fee of £25 and upon proof of original registration.

Delegate badges are non-transferable and cannot be lent to anyone during Heart Rhythm Congress 2013.

Banking: The ICC has a cashpoint located on the upper mall near to the Cloakroom and WH Smiths. Other cashpoints nearby are located in Brindleyplace, on Broad Street, in Paradise Forum and further afield at Birmingham New Street Station.

Catering: Lunch bags will be provided free of charge for all delegates on Monday and
Tuesday; these will be available from the exhibition hall during the lunch breaks.

In addition tea and coffee will be served throughout the day.

**Changes in the programme:** For scientific and/or technical reasons Heart Rhythm Congress reserves the right to make any changes to the programme.

**Cloakroom:** A staffed cloakroom is located in the main entrance foyer of The ICC. Storage for luggage is also available.

**CPD (Continuing Professional Development):** HRC is registered with the Royal College of Physicians of London for CPD. CPD certificates will be issued via e-mail upon request (up to 20 credits). You can apply for your certificate by completing your details, where appropriate on the online evaluation survey.

**Erratum:** The erratum includes the latest changes, updates and corrections to the scientific programme that occurred after the printing of the final programme. Please see the attached bookmark for these alterations.

**Evaluation:** You will find the HRC 2013 evaluation from the link on our website. Visit [www.heartrhythmcongress.org](http://www.heartrhythmcongress.org) and follow the link on the homepage. We value your comments and suggestions, so please take a few minutes to complete this evaluation.
Exhibition: The exhibition will be held in Hall 3. Opening times are:

- Monday 21st October 08.00 – 18.30
- Tuesday 22nd October 08.00 – 17.30
- Wednesday 23rd October 08.30 – 13.30

Please take time to visit the exhibition – the exhibition plan and list of exhibitors can be found at the back of this programme.

Gala evening: Hall 4 at The ICC from 19.00 – Midnight on Tuesday 22nd October. The evening will consist of a three course meal with dinner entertainment followed by live music from ‘Mister Shakes’.

Dress code: smart attire (no jeans, sportswear or trainers). Please visit the HRC registration for ticket availability.

Insurance: The Heart Rhythm Congress Organising Committee cannot accept responsibility for personal accidents or loss or damage to private property of participants and exhibitors at Heart Rhythm Congress.

Language: The official language of Heart Rhythm Congress is English.

Lost and found: If any personal belongings are lost during your times at Heart Rhythm Congress, please contact The ICC reception.
Non-Smoking policy: The ICC is a non-smoking establishment therefore smoking is absolutely prohibited at all times in the meeting rooms, exhibition halls and toilets. Smoking is permitted outside in the designated smoking area which is available at the Brindleyplace exit of The ICC.

Registration: Registration will take place in the foyer of Hall 3. Opening times are:

Monday 21st October 07.30 – 17.30
Tuesday 22nd October 07.30 – 17.30
Wednesday 23rd October 08.00 – Close

A floor plan of the meeting rooms can be found at the back of this programme.

Session capacity: The Heart Rhythm Congress Organising Committee have made every attempt where possible to place the sessions that are expected to have the highest attendance in the largest meeting rooms. Some sessions may be crowded and in order to sufficiently accommodate as many people as possible, please fill in the seats from the front to the back of each room so that it is easier for additional attendees to take a seat. Due to health and safety, once a hall has reached maximum capacity no further access will be allowed. Your compliance is appreciated.

Telephones: Please ensure that all mobile phones are on silent at all times during Heart Rhythm Congress.
Wi-Fi: Wi-Fi access is available to delegates free of charge across all foyer and registration areas within the venue. To obtain access, please accept the terms and conditions on the landing page. If you experience problems, visit the Business Centre, where The ICC team will be happy to help.

Heart Rhythm Congress staff list: Staff can be located throughout the Congress and can be identified by a red sash.

Raj Bilkhu
Hattie Byron
Daisy Harris
Caroline Holmes
Becky Hughes
Jo Jerrome
Francesca Lobban
Trudie Lobban MBE
Pippa Mawle
Sara Newbold
Steph Parker
Andy Robson
Laura Wood
Update on Syncope (1)

Monday 21 October, 08:30-12:15  Hall 8b

Topics to include:
★ Risk assessment of syncope
★ ECG abnormalities in VVS patients before and after syncope
★ Cardiac autonomic disturbances in patients with VVS
★ Medical treatment of Reflex Syncope
★ ISSUE 3 and its implications
★ Easy As2

Update on Syncope (2)

Monday 21 October, 13:30-17:15  Hall 11b

Topics to include:
★ ATP testing
★ Cough syncope
★ Value of the ILR in unexplained falls
★ Closed loop pacing in Vasovagal and Carotid Sinus Syndromes
★ Status of Syncope Management in a UK DGH
★ New and experimental treatments for Syncope and related conditions

Registered Charity No. 1084898
Attention all
Heart Rhythm UK members:

Heart Rhythm UK
Annual General Meeting

Hall 8a
International Convention Centre,
Birmingham UK

Tuesday 22 October 2013
12:30 – 13:15

This is your opportunity to hear about Heart Rhythm UK’s activities over the past 12 months and give council feedback on future plans.

Important changes will be discussed – make your vote count!

Registered Charity No. 273307
AF Association supports...

Comorbidities of Atrial Fibrillation

Monday 21 October, 13:30-17:15  Hall 8b

- Heart failure
- Hypertension and renal denervation
- Sleep apnoea
- Coronary disease
- Heart valve disease
- Hypertrophic cardiomyopathy

Hot Topics in AF

Tuesday 22 October, 08:30-12:15  Hall 10

- The genetics of AF
- Cerebral damage, dementia and the role of ablation
- Mapping of persistent AF
- Management of anticoagulation and AF ablation – focusing on new anticoagulants
- Debate: AF ablation should be first line therapy for paroxysmal AF
- How these areas will affect AF management in the next 5 years

Registered Charity No. 1122442
## MONDAY AT A GLANCE

<table>
<thead>
<tr>
<th>Time</th>
<th>Hall 11b Executive Room 1</th>
<th>Hall 11a</th>
<th>Hall 10</th>
<th>Hall 9</th>
<th>Hall 8b</th>
<th>Hall 8a</th>
<th>Hall 7b</th>
<th>Hall 3</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Oral Abstracts (1)</td>
<td>Gases &amp; Traces (1)</td>
<td>Master Class Devices, Part 1</td>
<td>Update on Syncope (1)</td>
<td>New Technologies Update - Biosense Webster</td>
<td>Paediatric/ Congenital Heart</td>
<td>Exhibition</td>
<td>Show</td>
<td>08:30</td>
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<tr>
<td>10:00</td>
<td>Tea/Coffee Break in Exhibition Hall</td>
<td>Commissioning &amp; Guidance - Current Status</td>
<td>Master Class Devices, Part 1</td>
<td>Update on Syncope (1)</td>
<td></td>
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<td></td>
<td>Show</td>
<td>10:00</td>
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<tr>
<td>10:45</td>
<td>Left Atrial Appendage Closure (Boston Scientific)</td>
<td>Left Atrial Appendage Closure (Boston Scientific)</td>
<td>Paediatric/ Congenital Heart</td>
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<td>Show</td>
<td>10:45</td>
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<tr>
<td>12:15</td>
<td>Lunch Break in Exhibition Hall</td>
<td>Lunch Break in Exhibition Hall</td>
<td>Don’t miss the interactive ECG Quiz taking place in Hall 3!</td>
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<td>Show</td>
<td>12:15</td>
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*Exhibition Paediatric/ Congenital Heart*

- Update on Syncope (1)
- Master Class Devices, Part 1
- New Technologies Update - Biosense Webster
- Paediatric/ Congenital Heart
- Exhibition

- Oral Abstracts (1)
- Gases & Traces (1)

Don’t miss the interactive ECG Quiz taking place in Hall 3!
MONDAY AT A GLANCE

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<thead>
<tr>
<th>Time</th>
<th>Hall 3</th>
<th>Hall 7b</th>
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<th>Hall 9</th>
<th>Hall 10</th>
<th>Hall 11a</th>
<th>Hall 11b</th>
<th>Executive Room 1</th>
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<tr>
<td>13:30</td>
<td>Exhibition</td>
<td>Paediatric/ Congenital Heart</td>
<td>Arrhythmias on the Front Line (1)</td>
<td>Comorbidities of AF (AF-A)</td>
<td>New Guidelines for Arrhythmia Syndromes (AICC)</td>
<td>Master Class Devices, Part 2 - Follow Up</td>
<td>Oral Abstracts (2)</td>
<td>Update on Syncope (2)</td>
<td>Tea/Coffee Break in Exhibition Hall</td>
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<tr>
<td>15:00</td>
<td>Exhibition</td>
<td>Paediatric/ Congenital Heart</td>
<td>Arrhythmias on the Front Line (1)</td>
<td>Comorbidities of AF (AF-A)</td>
<td>New Guidelines for Arrhythmia Syndromes (AICC)</td>
<td>Master Class Devices, Part 2 - Follow Up</td>
<td>Oral Abstracts (2)</td>
<td>Update on Syncope (2)</td>
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<tr>
<td>15:45</td>
<td>Heart Rhythm Trainees</td>
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<td>08:30</td>
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<td>Exhibition</td>
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<td></td>
<td>Hall 8a</td>
<td>Heart Rhythm UK Prep for Nurses</td>
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<tr>
<td>08:30</td>
<td>Hall 9</td>
<td>Master Class, Devices, Part 3</td>
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<td>10:00</td>
<td>Hall 10</td>
<td>Hot Topics in AF (AF-A)</td>
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<tr>
<td>10:45</td>
<td>Hall 11a</td>
<td>Arrhythmias on the Front Line (2)</td>
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<td>12:15</td>
<td>Hall 11b</td>
<td>Young Investigators Competition</td>
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<td>Hall 8b</td>
<td>Lunch Break in Exhibition Hall</td>
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Attention all Heart Rhythm UK members: Heart Rhythm UK AGM, 12:30-13:15 in Hall 8a.
### TUESDAY AT A GLANCE

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<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Event</th>
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<tbody>
<tr>
<td>13:30</td>
<td>Hall 3</td>
<td>Exhibition</td>
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<tr>
<td>15:00</td>
<td>Hall 8a</td>
<td>Arhythmia Nurses</td>
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<tr>
<td>15:45</td>
<td>Hall 9</td>
<td>Translational EP</td>
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<tr>
<td>17:30</td>
<td>Hall 10</td>
<td>Tea/Coffee Break in Exhibition Hall</td>
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<td>Hall 11a</td>
<td>Lead Extraction</td>
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<td>Hall 11b</td>
<td>Master Class EP Part 1</td>
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<td>Hall 8b</td>
<td>Arrhythmias - Generalist View</td>
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<td>Hall 9</td>
<td>Cardiac Physiologists Meeting</td>
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<td>Hall 10</td>
<td>Translational EP</td>
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<td>Arrhythmias - Generalist View</td>
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<td>Exhibition</td>
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<td>Translational EP</td>
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<td>Master Class EP Part 1</td>
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<td>Master Class EP Part 1</td>
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<td>Hall 8b</td>
<td>Arrhythmias - Generalist View</td>
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<td>Exhibition</td>
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<td>Translational EP</td>
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<td>Master Class EP Part 1</td>
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<td>Hall 11b</td>
<td>Master Class EP Part 1</td>
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</table>

**Exhibitions**
- Arrhythmia Nurses
- Translational EP
- Cardiac Physiologists Meeting
- Translational EP
- Exhibition
WEDNESDAY AT A GLANCE

<table>
<thead>
<tr>
<th>Time</th>
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<th>Event</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Hall 3</td>
<td>Exhibition</td>
</tr>
<tr>
<td>10:30</td>
<td>Hall 10</td>
<td>Cases &amp; Traces (2)</td>
</tr>
<tr>
<td></td>
<td>Hall 11a</td>
<td>Oral Abstracts (3)</td>
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<tr>
<td></td>
<td>Hall 11b</td>
<td>Arhythmias on the Front Line (3)</td>
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<td></td>
<td>Hall 8b</td>
<td>Tea/Coffee Break in Exhibition Hall</td>
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<tr>
<td>11:15</td>
<td>Hall 3</td>
<td>Exhibition</td>
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<td>Hall 10</td>
<td>Cases &amp; Traces (2)</td>
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<td>Hall 11a</td>
<td>Oral Abstracts (3)</td>
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<tr>
<td></td>
<td>Hall 11b</td>
<td>Arhythmias on the Front Line (3)</td>
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<tr>
<td>12:45</td>
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<td>Meeting Close</td>
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</table>
All-Party Parliamentary Group on AF

- Raises awareness of AF to parliamentarians and key decision makers
- Brings together clinicians, commissioners and patients to discuss high quality AF care
- Publishing research like the Healthcare pioneers report
- Represents an effective route to engagement and influences healthcare policy makers

For more information or to attend a meeting please email info@afa.org.uk
Whether you work in specialist, general or local medical health practices be among the first to join a pioneering arrhythmia community

Register FREE of charge to include your details on the Heart Rhythm Specialists website

www.heartrhythmspecialists.org

For more information:
T: +44 (0)1789 450 787
E: info@heartrhythmspecialists.org
Heart Rhythm UK Certificate of Accreditation Examination

Heart Rhythm UK is dedicated to improving all aspects of cardiac arrhythmia care and electrical device based therapies.

The 2014 examination will be taking place on:  

**Friday 21st March**  
Exam fee: £150* 

*To sit the exam you must be a Heart Rhythm UK member

Learn more at [www.heartrhythmuk.org.uk](http://www.heartrhythmuk.org.uk) section ‘Accreditation’.

For anyone considering sitting the exam in 2014, Heart Rhythm UK is running a pre-exam course during HRC 2013:

**Sunday 20th October  Core**  
The cost of the course is £50.

Registered Charity No. 273307
Cardiac Update Meetings

*CPD accredited by the Royal College of Physicians*

- For healthcare professionals involved in the management and treatment of heart rhythm disorders
- Providing a platform for education, as well as sharing best practice and information on topics such as device and drug treatments, atrial fibrillation and syncope
- The opportunity to network locally with other healthcare professionals in all areas of cardiac service provision, academic institutions and professional bodies

› www.heartrhythmcharity.org.uk
@ info@heartrhythmcharity.org.uk
✆ 01789 450 787
HEART RHYTHM UK
CERTIFICATE OF ACCREDITATION: CORE
HALL 10a

Chair: S Allen

13:00 Exam overview
   N Linker

13:15 Drugs in cardiology (incl action potentials)
   N Linker

13:45 Basic CRM anatomy
   C Plummer

14:15 Interpreting EP signals. Part 1 - the basics
   K Bain

14:45 Tea/Coffee

15:15 Interpreting EP signals. Part 2 - arrhythmia mechanisms
   S Murray

15:45 Landmark trials in CRM (drugs and devices)
   S Allen

16:30 NICE & ESC guidance for devices & AF
   M Squirrell

17:00 Close

PATIENTS DAY

Arrhythmia Alliance
   Hall 6

Atrial Fibrillation Association
   Hall 8

Syncope Trust And Reflex anoxic Seizures
   Hall 7

Patients Day Exhibition
   Registration Foyer
Not a member of Heart Rhythm UK?

It’s about time you joined!

• A forum to encourage all healthcare professionals working in heart rhythm management to raise and discuss matters of common interest

• Development and publication of standards and guidelines for device management and all areas of heart rhythm management

• Assistance and advice with managing clinical and technical problems related to device follow-up

• Accreditation for physiologists, nurses and doctors in cardiac devices and electrophysiology

• An opportunity to be involved in shaping heart rhythm management in the UK through election to the Heart Rhythm UK Council

• Discounted registration rates for Heart Rhythm Congress and other meetings

Registered Charity No. 273307
ECG Quiz!
hosted by Dr Derek Rowlands

Monday 21\textsuperscript{st} October
Lunch Break
Interactive Area, Hall 3

Grab your lunch bag and come along to test your knowledge during this interactive, educational but also entertaining session.
MONDAY - SESSION SUMMARIES

Paediatric/Congenital Heart
This meeting is intended for paediatric cardiologists, trainees, and cardiac physiologists. Delegates can expect to hear up-to-date information on sudden cardiac death and its management in teenagers. Delegates will also have the opportunity to listen to the key speakers and their thought provoking debates with opponents on antiarrhythmic devices.

Master Class Devices, Part 1
This master class is both a revision of some basic principles in devices and a look at some of the more complex applications that all physiologists and registrars working with device implant and follow-up could benefit from. Timing cycles are key to understanding the basics of device function and will be presented in an easily understandable format. Electrogram and ECG interpretation of both basic and complex issues using case studies will be addressed in 2 separate sessions by 2 experienced presenters. A look at some of the special company specific algorithms and their application will conclude the session. Test your knowledge with the audience voting system.

Update on Syncope (1 & 2)
These two sessions, morning and afternoon aim to present interesting new work in the field of syncope by a panoply of excellent speakers from UK, Europe and North America. Most aspects will be covered including the latest trials, unusual types of syncope and syncope as seen in the DGH.

Cases & Traces (1)
This session as always aims to be educational, widely inclusive, and entertaining. Electrophysiology and device therapy cases will be presented by a variety of speakers, not just physicians. Relevant to all healthcare professionals, this year there will be interactive voting which will add a little bit of spice to the proceedings too.
Left Atrial Appendage Closure for Risk Reduction of AF Related Strokes: What Every Cardiologist Should Know

Aimed at all health care professionals who are keen to keep abreast of advanced stroke reduction techniques for patients with atrial fibrillation. Delegates will hear clinical and research updates on left atrial appendage closure, have the chance to learn about the procedure itself, and understand how to develop a service.

Key speakers Tim Betts (Oxford), Saibal Kar (Los Angeles, USA), Tom Wong and John Foran (Royal Brompton Hospital).

New Technologies Update – Biosense Webster

This session looks at the latest new technologies and catheters in use with the Carto3 Navigation Mapping System – the Smart Touch contact force catheter, the nMARQ circular ablation catheter, the Pentaray Nav catheter and the Multi-Electrode Mapping software module.

Master Class Devices , Part 2 - Follow Up

This session will be of interest to all professionals with an interest in complex devices, especially physiologists, heart failure and arrhythmia nurses and SpRs. The subjects for discussion include the management of complex devices and some different approaches, including protocols and guidance, and an insight into achieving optimal benefits from our CRT devices.

New Guidelines for Diagnosis & Management of Arrhythmia Syndromes

The recent HRS/EHRA/APhRS guidelines for management and diagnosis of arrhythmia syndromes will be discussed. This will be of interest to medical and allied professionals involved in the diagnosis and management of patients and families with arrhythmia syndromes and SIDS/SADS deaths. Professor Wilde and Dr Behr will chair this AICC session.

AF Ablation

Target audience - Cardiologists, Surgeons, Cardiac Physiologists (with ablation experience), Arrhythmia Nurses

Ablation for AF is an evolving area. This session promises an update on the most modern techniques and how these are applied in UK practice, both in improving success rates and minimising complications. Importantly, cardiac surgeons are getting good results with ablation for AF too. Do they have something extra to offer? Come and find out.
PAEDIATRIC/CONGENITAL HEART
HALL 7b

Chair: J de Giovanni & O Uzun

09:00 The results and recommendation for SCD screening in teenagers
N Sreeram

09:30 The difficult ECG in screening for SCD in children
J de Giovanni

10:00 The difficult ECHO in screening for SCD in children
J Kaski

10:30 Break

Chair: A Duke & J Till

11:00 Competitive professional sports and competitive school activity recommendations in inherited cardiac disease
G Stuart

11:30 Travel/driving, drugs, sex and pregnancy - how to counsel the teenager with arrhythmia?
F Leong

12:00 Case presentation on inherited channelopathies

12:30 Lunch

Chair: J de Giovanni & J Mangat

13:30 Debate: All schools should have an AED
For: E Rosenthal
Against: K McLeod

14:10 Debate: Paediatric Device Service should be run by a cardiac physiologist
For: A Penney
Against: J Gnanapragasam

14:50 Panel discussions & conclusions

15:00 Break
Chair: F Leong & E Rosenthal

15:30 Pacemaker programming tips and tricks
M Walsh

16:00 ICD programming tips and tricks
V Bhole

16:30 Trainee case presentation of pacemaker and ICD troubleshooting

17:30 Close

MASTER CLASS DEVICES - PART 1
HALL 9

Chair: S Jones

08:30 Useful things to know in device implants
A Turley

09:00 Why we need to know our timing cycles and refractory periods
S Million

09:30 EGM interpretation part 1 - case studies (audience voting system)
> Basics: over/under sensing, non-capture, fusion, pseudo-fusion etc
S Allen

10:00 Break

10:45 EGM interpretation part 2 - case studies (audience voting system)
> Noise, rate response algorithms, upper rate behaviour, PMT
P Doherty

11:30 Company specific pacing algorithms
(i) Reduction in RV pacing algorithms
(ii) CRT pacing algorithms
M Anderson

12:15 Close
ORAL ABSTRACTS (1)

HALL 11b

Allied Professionals

Chair: J Mudd & M Squirrell

08:30 PRE IMPLANT MEASURES OF ANXIETY IN PEOPLE AWAITING AN IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD) FOR PRIMARY OR SECONDARY PREVENTION OF SUDDEN CARDIAC DEATH
J Tagney (Presenting Author), S Palmer, M Morris, JW Albarran, L Lockyer (Bristol Heart Institute, Bristol UK; University of the West of England, Bristol UK)

08:45 SAFETY OF EXPOSURE TO LOW STRENGTH PERMANENT MAGNETIC FIELDS: AN IN-VITRO STUDY OF VARIOUS IMPLANTABLE CARDIOVERTER DEFRIBRILLATORS
C Burchardt (Presenting Author), G Hall, J Parslow, S Ernst (Royal Brompton and Harefield NHS Trust, London UK)

09:00 CAN REMOTE MONITORING POTENTIALLY SIGNIFICANTLY REDUCE THE BURDEN OF IN-PERSON FOLLOW-UP CLINIC VISITS?
J Osman (Presenting Author), H Kavanagh, M J Dayer (Taunton and Somerset NHS Trust, Taunton UK)

09:15 ARRHYTHMIA BURDEN IN A SINGLE CENTRE ADULT FONTAN COHORT
E Quinton (Presenting Author), P Clift, L Hudsmith, S Thorne, J de Bono (University Hospitals Birmingham, Birmingham UK)

09:30 CAN FOLLOW-UP OF DIAGNOSTIC IMPLANTABLE LOOP RECORDERS BE IMPROVED TO BENEFIT PATIENTS
G Pounds (Presenting Author) (County Durham and Darlington NHS Foundation Trust, Darlington UK)

09:45 A STUDY REVIEWING THE POTENTIAL IMPACT OF MADIT-RIT ICD PROGRAMMING RECOMMENDATIONS ON REPORTED INAPPROPRIATE ICD SHOCKS AT THE ROYAL BROMPTON HOSPITAL. WOULD HIGH RATE THERAPY PROGRAMMING SIGNIFICANTLY REDUCE THE INCIDENCE OF INAPPROPRIATE SHOCKS?
SL Mumford (Presenting Author), J Jarman (The Royal Brompton Hospital, London UK)
10:00  Break

Devices

Chair:  A Morley-Davies & S Petkar

10:45  1-YEAR COMPLICATION RATES FOLLOWING GENERATOR REPLACEMENT
CEP Brough (Presenting Author), C McGee, A Rao, DJ Wright (ICMS at Liverpool Heart and Chest Hospital, Liverpool UK)

11:00  1-YEAR COMPLICATION RATES FOLLOWING CARDIAC RHYTHM DEVICE UPGRADE TO RESYNCHRONISATION THERAPY
CEP Brough (Presenting Author), C McGee, A Rao, DJ Wright (ICMS at Liverpool Heart and Chest Hospital, Liverpool UK)

11:15  NATIONAL SURVEY ON MRI CONDITIONAL CARDIAC IMPLANTABLE ELECTRONIC DEVICES
FZ Ahmed (Presenting Author), S Allen, M Mamas, AM Zaidi (Manchester Heart Centre, Manchester UK)

11:30  PRIMARY PACING SERVICE: CAN WE REDUCE WAITING TIMES FOR PATIENTS WITH COMPLETE HEART BLOCK?
EJ Cantor (Presenting Author), P Carroz, RJ Schilling (Barts Health, London UK)

11:45  MEDIUM-TERM FOLLOW-UP OF PATIENTS WITH IMPLANTABLE CARDIOVERTER DEFIBRILLATORS CONFIRMS MODERN ALGORITHMS ARE ASSOCIATED WITH LOW LEVELS OF INAPPROPRIATE SHOCKS
D Barker (Presenting Author), D Cullen, R Hall, MJ Ng Kam Chuen, S Hughes, A Sharpe, DJ Wright, A Rao (Institute of Cardiovascular Medicine and Science, Liverpool UK; Medtronic Limited, Watford UK)

12:00  SINGLE CENTRE EXPERIENCE OF IMPLANTED RIATA AND RIATA ST SILICONE COATED LEADS AT THE LIVERPOOL HEART AND CHEST HOSPITAL
MJ Ng Kam Chuen (Presenting Author), DJ Wright, S Hughes, S Belchambers, M Sendegaya, A Rao, (Liverpool Heart and Chest Hospital, Liverpool UK)

12:15  Close
UPDATE ON SYNCOPE (1)
HALL 8b

Chair: B Grubb

08:30 Risk assessment of syncope
R Sheldon

09:00 ECG abnormalities in VVS patients before and after syncope
M Lelonek

09:30 Cardiac autonomic disturbances in patients with VVS
A Ghuran

10:00 Break

10:45 Medical treatment of Reflex Syncope
A Brandes

11:15 ISSUE 3 and its implications
R Sutton

11:45 EasyAs2
N Sulke

12:15 Close

CASES & TRACES (1)
HALL 11a

Chair: S Harris & K Rajappan

08:30 Case 1
TBA

08:50 Case 2
G Lee

09:10 Case 3
J Sibley

09:30 Case 4
TBA
COMMISSIONING & GUIDANCE IN 2013 - CURRENT STATUS
HALL 11a

Chair: C Cowan & S Furniss

10:45 What cardiologists need to know
S Griffith

11:15 Update on NICE guidance - devices
C Plummer

11:45 Update on NICE guidance - AF
GY Lip

12:15 Close

LEFT ATRIAL APPENDAGE CLOSURE FOR RISK REDUCTION OF AF RELATED STROKES: WHAT EVERY CARDIOLOGIST SHOULD KNOW
HALL 10

Chair: T Betts

10:45 Introduction to session and speakers
T Betts

10:50 Latest insights on the clinical evidences:
from PROTECT AF to PREVAIL
S Kar

11:05 Biological response following Watchman and Amplatzer Cardiac Plug implant
S Kar

11:15 Concomitant AF ablation and LAA Occlusion:
where are we now?
T Wong

11:30 Live case in a box: implant technique and tips and tricks
J Foran
11:45  Where to put LAAC in your local stroke prevention guidelines and pathways  
      T Betts

12:05  Questions and discussion

12:15  Close

NEW TECHNOLOGIES UPDATE - BIOSENSE WEBSTER  
HALL 8a

Chair:  D Gupta & K Rajappan

10:45  Smart Touch Contact Force Mapping & Ablation with Visitag Software  
      R Schilling

11:15  nMARQ AF ablation experience and update  
      G A Ng

11:45  Penteray Nav and Multi Electrode Mapping experience and update  
      S Murray

12:15  Close

ARRHYTHMIAS ON THE FRONT LINE (1)  
HALL 8a

Emergencies

Chair:  S Furniss & A Thornley

13:30  Management of VT (including VT storm and TdP (drug and brady induced))  
      T Betts

14:00  When to temporary pace (vs. permanent pacemaker vs. Isoprenaline)  
      E Rowland
14:30 Arrhythmias in pregnancy
D Adamson

15:00 Break

**Difficult Patients**

15:45 Infection e.g. MRSA colonised patients, patients with chronic leg ulcers etc etc.
A Rao

16:05 Device procedures and anticoagulation (warfarin, NoACs, DAPT for valves / AF)
A Turley

16:30 Difficult anatomy - implant tips & tricks
A Morley-Davies

16:50 What to do at box change when original indication for implant has gone away
J McComb

17:15 Close

COMORBIDITIES OF ATRIAL FIBRILLATION
HALL 8b

Chair: D Connelly

13:30 Heart failure
T Wong

14:00 Hypertension and renal denervation
J McCready

14:30 Sleep apnoea
D Redfearn

15:00 Break

15:45 Coronary disease
TBA
16:15 Heart valve disease
M Griffith

16:45 Hypertrophic cardiomyopathy
P Lambiase

17:15 Close

MASTER CLASS DEVICES PART 2 - FOLLOW UP
HALL 9

Chair: S Hughes & N Linker

13:30 How I run my device follow up service
I Clement

14:00 Utilising HF diagnostics in follow up
A Rao

14:30 How to increase CRT response
C A Rinaldi

15:00 Break

Chair: S Jones & C A Rinaldi

15:45 Programming protocols for complex devices
I Wright

16:15 CRT troubleshooting
S Hughes

16:45 The failed LV lead implant - what to do next
G Haywood

17:15 Close
NEW GUIDELINES FOR DIAGNOSIS AND MANAGEMENT OF ARRHYTHMIA SYNDROMES (SUPPORTED BY AICC)
HALL 10

Chair: E Behr & A Wilde

13:30 Introduction to the new guidelines and the cardiogenetic clinic  
A Wilde

13:55 Long QT syndrome  
P McKeown

14:15 Brugada syndrome  
D Todd

14:40 CPVT  
J Till

15:00 Break

15:45 Short QT syndrome and PCCD  
A M Choy

16:05 Early repolarisation syndrome  
P Lambiase

16:25 IVF  
C Garratt

16:45 SADS  
E Behr

17:00 SIDS  
G Stuart

17:15 Close
ORAL ABSTRACTS (2)
EXECUTIVE ROOM 1
Basic Science & Sudden Death
Chair: A Grace & P Lambiase

13:30 ENDURANCE TRAINING PROVOKES ARRHYTHMOGENIC RIGHT VENTRICULAR CARDIOMYOPATHY-LIKE PHENOTYPE IN HETEROZYGOUS DESMOGLEIN-2 MUTATION
L Fabritz (Presenting Author), L Fortmuller, E Vloumidi, TY Yue, F Syeda, P Kirchhof, R Leube, C Krusche (Centre for Cardiovascular Sciences University of Birmingham, Birmingham UK; Universital Hospital Munster, Munster DE, Institute of Molecular and Cellular Anatomy, RWTH University, Aachen DE)

13:45 VAGO-SYMPATHETIC INTERACTION OF VENTRICULAR FIBRILLATION INDUCIBILITY IN ISOLATED RABBIT HEARTS
SH Chin (Presenting Author), J Winter, KE Brack, GA Ng (University of Leicester, Leicester UK)

14:00 ADVERSE REMODELING OF THE ELECTROPHYSIOLOGICAL RESPONSE TO ISCHEMIA-REPERFUSION IN HUMAN HEART FAILURE IS ASSOCIATED WITH REMODELING OF METABOLIC GENE EXPRESSION
FS Ng (Presenting Author), KM Holzem, AC Koppel, D Janks, AL Wit, NS Peters, IR Efimov (Imperial College London, London UK; Washington University in Saint Louis, Saint Louis USA; Columbia University, New York USA)

14:15 THE MECHANISM OF CONDUCTION SLOWING CAN BE DISTINGUISHED BY DIFFERENTIAL CHANGES IN ELECTROGRAM MORPHOLOGY
RA Chowdhury (Presenting Author), MA El-Harasis, E Dupont, CMN Terracciano, NS Peters (Imperial College London, London UK)

14:30 CIRCUMSTANCES OF SUDDEN CARDIAC DEATH IN PATIENTS WITH A STRUCTURALLY NORMAL HEART
GJ Mellor (Presenting Author), H Raju, SV de Noronha, M Papadakis, S Sharma, ER Behr, MN Sheppard (St. George’s University Hospital, London UK; National Heart and Lung Institute, Royal Brompton Hospital, London UK)
14:45  LGE MRI ISCHAEMIC SCAR THICKNESS GRADIENT PREDICTS INDUCIBLE VENTRICULAR ARRHYTHMIA
S Jamil-Copley (Presenting Author), W Bai, B Ariff, PB Lim, M Koa-Wing, A Kyriacou, S Hayat, A Sohaib, N Qureshi, B Sandler, D O’Regan, Z Whinnett, W Davies, D Rueckert, P Kanagaratnam, N Peters, (Department of Cardiac Electrophysiology, Hammersmith Hospital Campus, Imperial College Healthcare NHS Trust and Imperial College, London UK)

15:00  Break

15:45  AF Ablation
Chair: S Murray & K Rajappan

15:45  A MULTI CENTRE, RANDOMISED, SINGLE BLINDED TRIAL OF WIDE AREA CIRCUMFERENTIAL ABLATION WITH PULMONARY VEIN ISOLATION COMPARED TO A MULTIPOLAR CIRCULAR ABLATION CATHETER IN PATIENTS WITH PAROXYSMAL ATRIAL FIBRILLATION
PD Lambiase (Presenting Author), AW Chow, MD Lowe, OR Segal, S Ahsan, J de Bono, M Dhaliwal, C Mfuko, A Ng, A Sandilands, J Paisey, P Roberts, Morgan J M, J McCready, A Yue (Heart Hospital UCLH, London UK; Glenfield Hospital, Leicester UK; Bournemouth University Hospital, Bournemouth UK; Southampton General Hospital, Southampton UK; Brighton University Hospital, Brighton UK)

16:00  THE IMPACT OF CATHETER CONTACT FORCE DURING ABLATION ON THE BIOPHYSICAL AND ELECTROGRAM CHARACTERISTICS OF THE FIBRILLATING HUMAN LEFT ATRIUM
W Ullah (Presenting Author), R Hunter, M Lovell, M Dhinoja, S Sporton, M Earley, R Schilling (St Bartholomew’s Hospital, London UK)

16:15  FACTORS AFFECTING LATE PULMONARY VEIN RECONNECTION FOLLOWING BALLOON CRYOABLATION FOR ATRIAL FIBRILLATION
J Ghosh (Presenting Author), A Martin, A Keech, KH Chan, S Gomes, S Singarayar, M McGuire (Royal Prince Alfred Hospital, Sydney AU; NHMRC Clinical Trials Centre, University of Sydney, Sydney AU; Royal Prince Alfred Hospital, Sydney AU, The Mater Hospital, Sydney AU.
16:30  COST EFFECTIVENESS OF CATHETER ABLATION VERSUS A RATE CONTROL STRATEGY FOR TREATMENT OF ATRIAL FIBRILLATION IN PATIENTS WITH ADVANCED HEART FAILURE
G Lee (Presenting Author), R Hunter, TJ Berriman, I Diab, R Kamdar, L Richmond, V Baker, F Goromonzi, V Sawhney, E Duncan, B Unsworth, J Mayet, D Abrams, M Dhinoja, S Sporton, M Earley, RJ Schilling (St Bartholomews Hospital, London UK)

16:45  FREQUENCY AND OUTCOMES FOR INCIDENTAL FINDINGS ON COMPUTERISED TOMOGRAPHY PLANNING SCANS PERFORMED PRIOR TO ATRIAL FIBRILLATION ABLATION
RW Bowers (Presenting Author), V Mulholland, RN Balasubramaniam, JR Paisey, SM Sopher (Royal Bournemouth Hospital, Bournemouth, UK)

17:00  MANUAL AND AMIGO ROBOTIC-ASSISTED AF ABLATION SHOW SIMILAR CLINICAL OUTCOMES: THE EARLY RESULTS OF MAST-AF
GS Chu (Presenting Author), SH Chin, J Winter, S Armstrong, N Masca, TP Almeida, PD Brown, AJ Sandilands, FS Schlindwein, GA Ng (University of Leicester, Leicester UK; Glenfield Hospital, Leister UK; NIHR Leicester Cardiovascular Biomedical Research Unit, Leicester UK; University of Leicester, Leicester UK)

17:15  Close

UPDATE ON SYNCOPE (2)
HALL 11b

Chair: R Sutton

13:30  ATP testing
S Parry

14:00  Cough syncope
P B Lim

14:30  Value of the ILR in unexplained falls
R A Kenny
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<td>15:00</td>
<td>Break</td>
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<td>15:45</td>
<td>Closed loop pacing in Vasovagal and Carotid Sinus Syndromes</td>
<td>B Grubb</td>
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<td>16:15</td>
<td>Status of Syncope Management in a UK DGH</td>
<td>M Asgari</td>
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<td>16:45</td>
<td>New and experimental treatments for Syncope and related conditions</td>
<td>T Salukhe</td>
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**AF ABLATION**

**HALL 11a**

**Chair:** R Cappato & R Schilling

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<tr>
<td>15:45</td>
<td>AF ablation - minimising complications</td>
<td>R Cappato</td>
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<td>16:15</td>
<td>AF ablation - maximising success rates</td>
<td>R Schilling</td>
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<td>16:45</td>
<td>Are the surgeons doing better than us? The role of stand-alone surgical persistent AF ablation?</td>
<td>T Wong</td>
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**HEART RHYTHM TRAINEES**

**HALL 8a**

**Chair:** A Opel

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<td>17:30</td>
<td>Fellowships in the UK: where, how, when, why</td>
<td>J de Bono</td>
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<tr>
<td>17:55</td>
<td>Fellowships abroad: where, how, when, why</td>
<td>J Lee</td>
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18:15  No consultant post? What to do post CCT
       TBA

18:40  Marketing yourself in Cardiac Electrophysiology
       R Schilling

19:00  Close
Interested in setting up a Rapid Access T-LoC Clinic?

Visit the STARS T-LoC website which has been designed to support the set up and management of a triage tool to assist the rapid and accurate diagnosis of patients suffering from unexplained periods of unconsciousness.

www.starstloc.org
Arrhythmia Alliance

Do you have enough AEDs in your area?

Need our help?

www.heartsandgoals.org

+44 (0)1789 450 787

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Locate your nearest AED

www.heartsandgoals.org

Arrhythmia Alliance
The Heart Rhythm Charity

www.heartrhythmcharity.org.uk
Tuesday - Session Summaries

Arrhythmias - The Generalist View
This session will be of interest to the generalist both in primary and secondary care. If enthusiasm is infectious, you will be infected! Case discussions included. Come and enjoy!

Arrhythmias on the Front Line (2)
This session is of particular interest for physicians, nurses and technicians involved in implantation and follow-up of cardiovascular implantable electronic devices. Drs Linker, Redfearn, and Wright will discuss the role of the ILR, technical features of available devices and their utility as well as important issues of running a pacing service.

Hot Topics in AF
This section will focus on new scientific advances in pathophysiology, management and therapy of atrial fibrillation (AF) and it is addressed to electrophysiologists, cardiologists and general practitioners. The discussion will extend from the impact of genetic background in the development of AF to the role of new oral anticoagulants and transcatheter ablation in the prevention of neurological damage. Moreover, this section will address the debate on AF ablation as a first line therapy for paroxysmal AF.

Master Class Devices, Part 3
This session is suitable for doctors and physiologists involved in device implantation, extraction and follow-up. The first half consists of interesting case studies. The second half includes an update on Fidelis and Riata leads by Jay Wright and advice about device upgrades from Adrian Morley-Davies. This session at last year’s HRC was very popular; arrive early to guarantee a seat.

Young Investigators Competition
The Young Investigators Competition remains a prominent feature in the Congress, where 6 finalists will present their abstracts in oral form. To engage audience participation, there will be a public vote during the competition (in ‘Y’ factor style) which will count towards the total score where the final decision will be made by the Judges Panel.
Master Class EP, Part 1

This Master Class in EP is a practical session aimed at cardiologists, physiologists and nurses who work in the electrophysiology lab, but will also be of interest to general cardiologists and physiologists who manage arrhythmia patients. The session will cover 12 lead ECG interpretation - Dr Steve Murray will look at mechanistic clues available from the ECG and Dr Grubb will focus specifically on locating accessory pathways. Ian Wright explores the merits of a comprehensive electrophysiology study and Dr Edwards details the utility of pacing manoeuvres. Diagnosis and management of atypical variants of AV nodal re-entrant tachycardia and atrial flutter are described by Dr Begley.

Translational EP

Mapping plays a key role in the understanding of complex arrhythmia mechanism and identification of arrhythmogenic substrates and potential treatment targets. This session on Translational EP brings us up to date with the many advances in cardiac mapping – ranging from the use of voltage sensitive fluorescence dyes in optical techniques, mapping of VF intraoperatively and of repolarisation on the ECG, to the latest developments in clinical procedures including contact, non-contact and non-invasive mapping.

Cardiac Physiologist Meeting

This session is aimed at cardiac physiologists wanting to know more about Heart Rhythm UK standards for devices and EP. Also in this session our key note speaker Professor Tony Fisher from the Academy for Healthcare science is presenting on how device and EP physiologists can gain equivalence and registration as Health Care scientists.

Electrophysiology, AF and the NOACS: Beyond the Headlines

What’s the latest thinking on the role of the NOACs in preventing AF-related stroke? What about their impact on your interventional procedures? This session goes beyond the published data, as our faculty shares experience and opinion and invites you to do likewise by way of an interactive patient case.
ARRHYTHMIAS - THE GENERALIST VIEW
HALL 8b

Dizziness

Chair: A Fitzpatrick

08:30  When is dizziness at the heart of the matter: the cardiac causes
E Brierley

09:00  When is dizziness all in the head: ENT and dizziness
R Dawson

09:30  Cases and discussion

10:00  Break

Palpitations

Chair: M Fay

10:45  How to predict high risk in patients with palpitations
E Behr

11:15  Low risk palpitations: how to investigate and how to treat from anxiety to arrhythmia
A Hall

11:45  Cases and discussion

12:15  Lunch

People and Prevention

Chair: M Kirby

13:30  AF: when to ablate, when to medicate and when to leave alone
T Betts

14:00  AF: when to anticoagulate and when not to
M Fay

14:30  Cases and discussion

15:00  Break
Failing in Heart Failure

Chair: C Arden

15:45 LVSD-finding fluid from the COPD fibrosis
TBA

16:15 LVSD-preventing deterioration
(including CRT, evolving CRT indications)
A Turley

16:45 Cases and discussion

17:15 Close

ARRHYTHMIAS ON THE FRONT LINE (2)
HALL 11a

Chair: A Brandes

08:30 ILRs - ILR or definitive device / implant procedure
N Linker

09:00 New technology/MRI/Programming, filters/ Set up -
St Jude Medical vs. Medtronic vs. others
D Redfearn

09:30 Running a pacing service - clinical governance, CPD,
local databases, audit, research, complications:
what we need to collect and how to do it
D J Wright

10:00 Break

Chair: A Fitzpatrick

10:45 Heart Rhythm UK standards: what’s new?
C Plummer

11:15 National CRM database - future directions
F Murgatroyd

11:45 Devices & lifestyle - driving, sport (contact and
diving), occupational issues and psychological
support (PPM, ICD)
M Griffith

12:15 Close
HEART RHYTHM UK PREP FOR NURSES
HALL 8a

Chair: A Griffiths & J Mudd

08:30 Syncope: diagnosis & treatment
S Petkar

09:00 Medical management of arrhythmias
S James

09:30 ECG workshop
S Murray

10:00 Break

10:45 Assessment and management of stroke risk in patients with atrial fibrillation
A Rice

11:15 Basic electrogram interpretation
K Lascelles

11:45 An overview of cardiomyopathies - causes, symptoms, diagnosis & treatment
J Bourke

12:15 Close

AF Association
HOT TOPICS IN AF
HALL 10

Chair: R Cappato

08:30 The genetics of AF
A Grace

09:00 Cerebral damage, dementia and the role of ablation
TBA

09:30 Mapping of persistent AF
M Earley
10:00  Break

10:45  Management of anticoagulation and AF ablation - focusing on new anticoagulants
       K Rajappan

11:15  Debate: AF ablation should be first line therapy for paroxysmal AF
       For: M Wright
       Against: TBA

12:05  How these areas will affect AF management in the next 5 years
       R Schilling

12:15  Close

MASTER CLASS DEVICES,
PART 3 - MANAGING DEVICE AND LEAD COMPLICATIONS
HALL 9

Chair:  A Zaidi

08:30  Case study 1
       J Rosengarten

09:00  Case study 2
       S Allen

09:30  Case study 3
       I Clement

10:00  Break

10:45  ICD lead advisories - where are we?
       D J Wright

11:15  Challenges with device upgrades
       A Morley-Davies

11:45  Recent advances in the diagnosis of device related infections
       F Ahmed

12:15  Close
YOUNG INVESTIGATORS COMPETITION

HALL 11b

Judges: G A Ng (Chair), C Garratt, P Lambiase, D Todd

08:30 PRIMARY PREVENTION ICD INDICATIONS FOLLOWING PRIMARY PCI (PPCI): THE 7-YEAR TEESIDE EXPERIENCE
TT Phan (Presenting Author), S Khan, M Dewhurst, D Lee, S J ames, M de Belder, NJ Linker, A Thornley, AJ Turley (The James Cook University Hospital, Middlesbrough UK)

09:00 CLINICAL UTILITY OF FDG PET/CT AS A DIAGNOSTIC TOOL IN PATIENTS WITH NON-VALVULAR CARDIAC DEVICE RELATED INFECTION
FZ Ahmed (Presenting Author), P Arumugam, S Allen, K Daniels, B Clarke, M Mamas, J James, AM Zaidi (Manchester Heart Centre, Manchester UK; Manchester Royal Infirmary, Manchester UK)

09:30 DISTRIBUTION OF CONTACT FORCES DURING PERSISTENT ATRIAL FIBRILLATION ABLATION AND PULMONARY VEIN RECONNECTION - IMPACT OF ROBOTIC NAVIGATION AND A DEFLECTABLE SHEATH
W Ullah (Presenting Author), R Hunter, M Lovell, M Dhinoja, M Earley, S Sporton, R Schilling (St Bartholomew’s Hospital, London UK; London Independent Hospital, London UK; London Bridge Hospital, London UK)

10:00 Break

10:45 NEXT GENERATIONAL SEQUENCING IN MOLECULAR AUTOPSY: POTENTIAL FOR CLINICAL APPLICATION?
H Raju (Presenting Author), P Hedley, G Arno, J Ware, S J effery, S Cook, M Christiansen, ER Behr (St George’s University of London, London UK; Statens Serum Institute, Copenhagen DN; Imperial College, London UK; Royal Brompton Hospital, London UK)

11:15 ASSESSMENT OF LV CONTRACTION PATTERN WITH CARDIAC MR (CMR) PREDICTS REVERSE REMODELLING POST CRT
M Sohal (Presenting Author), Z Chen, E Sammut, T Jackson, N Child, M Wright, M O’Neill, M Cooklin, J Gill, G Carr-White, R Razavi, CA Rinaldi (King’s College London and Guy’s and St Thomas’ NHS Foundation Trust, London UK; Guy’s and St Thomas’ NHS Foundation Trust, London UK)
11:45 MOLECULAR AUTOPSY UTILISING FULL EXONIC SEQUENCING IN SUDDEN ARRHYTHMIC DEATH SYNDROME
LM Nunn (Presenting Author) L Lopes, P Syrris, V Plagnol, E Firman, C Dalageorgou, D Domingo, E Zorio, V Murday, I Findlay, A Duncan, S Fynn, A White, M Goddard, G Carr-White, L Robert, T Bueser, C Langman, H Bundgaard, L Ferrero-Miliani, N Wheeldon, A O’Beirne, SK Suvarna, MD Lowe, WJ McKenna, PM Elliott, PD Lambiase (Heart Hospital, London UK; University College London, London UK; Hospital La Fe, Valencia ES; Yorkhill Hospital, Glasgow UK; Papworth Hospital, Cambridge UK; St Thomas’ Hospital, London UK; National University Hospital, Copenhagen DN, Northern General Hospital, Sheffield UK; Northern General Hospital, London UK, Heart Hospital, London UK)

12:15 Close

ARRHYTHMIA NURSES
HALL 8a

Chair: A Griffiths & J Mudd

14:00 The pitfalls of clinical research
J Tagney

14:30 Management of post AF ablation tachycardias
M Ginks

15:00 Break

15:45 Diagnosing and managing with patients with syncope
M Ferrar

16:15 Stroke prevention - developments in medical and device therapies
S Murray

16:45 How well do nurses manage stroke risk stratification in patients with AF?
A Rice

17:15 Close
MASTER CLASS EP, PART 1
HALL 11b

Chair: N Grubb & I Wright

13:30 ECGs in EP patients
S Murray

14:00 Why do you need to do a full EP study?
I Wright

14:30 Pacing manoeuvres during SVTs
R Edwards

15:00 Break

Chair: A Thornley

15:45 Case presentations - where’s the pathway? (ECGs & EP traces)
N Grubb

16:15 Case presentations - when is AVNRT atypical? (ECGs & EP traces)
D Begley

16:45 Case presentations - when is right atrial flutter atypical? (ECGs & EP traces)
TBA

17:00 Close

TRANSLATIONAL EP
HALL 10

Chair: G A Ng & N Peters

13:30 Optical mapping of the whole heart
R Myles

14:00 Intaoperative ventricular mapping
P Taggart

14:30 Repolarisation mapping from the ECG
W Nicolson
15:00  Break

15:45  Unipolar and Bipolar contact mapping
       R Schilling

16:15  Non contact mapping
       P Stafford

16:45  Panoramic noninvasive mapping
       N Derval

17:15  Close

IMPROVING PATIENT OUTCOMES IN A
CHALLENGING HEALTHCARE ENVIRONMENT
HALL 9

Chair:  P Brugada

13:30  Welcome & introduction
       > The European perspective
       P Brugada

13:40  Increased efficiencies to treat patients better
       > Using a multi-disciplinary approach to reduce hospital admissions. Solutions with current resources (longevity, RPM, HF diagnostics)
       D J Wright

14:00  CRM devices a cost or investment?
       > Increasing referrals, working with commissioners
       F Leyva

14:20  The Commissioner's perspective - understanding each other's needs
       > What commissioning bodies need from you to partner in patient care
       J Howell
14:40 Round table discussion - improving patient outcomes in a challenging healthcare environment
14:55 Closing remarks
15:00 Close

LEAD EXTRACTION
HALL 11a
Chair: C A Rinaldi
13:30 Who to do and where to do it
C Plummer
14:00 How to extract LV leads
A Yue
14:30 How to do it and manage complications
A Zaidi
15:00 Close

CARDIAC PHYSIOLOGIST MEETING
HALL 11a
Chair: S Allen
15:45 Heart Rhythm UK standards and delivery of service
S Blackman
16:25 How to get a cardiology STP
J Hutchinson
16:40 MySC - modernising your scientific career
> How to get healthcare scientists equivalence etc
Professor Tony Fisher - Academy for Healthcare Science
17:15 Close
ELECTROPHYSIOLOGY, AF AND THE NOACS: BEYOND THE HEADLINES

HALL 9

Chair: F Murgatroyd

15:45  AF-related stroke: at what price?
D Hargroves

16:15  Beyond the evidence and into clinical practice: an interactive clinical case
M Stewart
K Rajappan

17:15  Close
AF stroke risk calculator

- AF increases stroke risk by 500%
- To assess an AF patients stroke risk, refer them to the AF stroke risk calculator
- This provides a print out of information for you and your patient to discuss appropriate treatment

www.preventaf-strokecrisis.org
Wednesday - Session Summaries

Arrhythmias on the Frontline (3)
Target Audience - Secondary Care Cardiology / GPSI
Efficient patient pathways are key to identifying the right patients for the right treatments. The UK still has device implant rates that are lower than many similar countries. Where are these patients, how do we identify them and what are the practical aspects of enhancing the referral process? The first part of this session is designed to give some insight to possible reasons. The second part of the session will provide an update on what is new in cardiac rhythm management: drugs, devices and ablation. This will be a great way to stay up-to-date.

Cases & Traces (2)
This session as always aims to be educational, widely inclusive, and entertaining. Electrophysiology and device therapy cases will be presented by a variety of speakers, not just physicians. Relevant to all healthcare professionals, there will also be an informative talk on ECG interpretation.

Master Class EP, Part 2
Ideal for cardiac physiologists and cardiology SpRs that already have some basic EP knowledge. The main focus will be on ablation of atrial fibrillation and ventricular tachycardia. Key speakers are Dr Mark Earley from St Bartholomew’s Hospital who will be presenting on ablation of ischaemic VT and Dr Andrew Thornley from James Cook hospital will be talking on management of anticoagulation and complications of AF ablation.
ARRHYTHMIAS ON THE FRONT LINE (3)
HALL 11a

Screening: where have all the patients gone? How to look for them and what to do when you find them!

Chair: N Sulke & D Todd

09:00 ILRs
I Matthews

09:20 Pacemakers
J McComb

09:45 ICDs
A Turley

10:05 CRT
D Farwell

10:30 Break

What's new in 2013?

11:15 Drugs
J de Bono

11:45 Devices
M Mason

12:15 Ablation
J Bourke

12:45 Close

CASES & TRACES (2)
HALL 10

Chair: K Rajappan

09:00 The frontal plane QRS axis: discipline in assessment and interpretation
D Rowlands

09:30 Case 1
P Foley
10:00 Case 2  
M Webber

10:30 Tea/Coffee

11:15 Case 3  
TBA

11:45 Case 4  
T Dillon

12:15 Case 5  
TBA

12:45 Close

MASTER CLASS EP, PART 2
HALL 8b

Chair: T Watts & A Yue

09:00 Mechanisms of AF - implication for ablation strategies  
A Yue

09:30 Use of different technologies for AF ablation  
T Watts

10:00 Management of anticoagulation & complications of  
AF ablation  
A Thornley

10:30 Break

11:15 Localisation and ablation of atrial tachycardias  
S James

11:45 Ablation of normal heart VT  
N Grubb

12:15 Ablation of ischaemic VT  
M Earley

12:45 Close
ORAL ABSTRACTS (3)
HALL 11b

Mapping & Ablation

Chair: J McCready & T Wong

09:00 PANORAMIC CHARACTERIZATION OF LEFT ATRIAL WAVEFRONT ACTIVATION DURING HUMAN PERSISTENT AF USING A 3D NON-CONTACT MAPPING SYSTEM
G Lee (Presenting Author), R Hunter, M Lovell, M Finlay, V Sawhney, W Ullah, I Diab, M Dhinoja, M Earley, S Sporton, RJ Schilling (St Bartholomews Hospital, London UK)

09:15 HIGH ACCURACY UNIPOLAR LOCAL ACTIVATION TIME ASSIGNMENT TO FACILITATE DENSE MULTIPOLAR ELECTRODE MAPPING
SE Williams (Presenting Author), NWF Linton, J Harrison, M Wright, M O’Neill (King’s College London, London UK)

09:30 RIPPLE MAPPING IMPROVES THE VISUALISATION OF ATRIAL TACHYCARDIA ACTIVATION SEQUENCES
S Jamil-Copley (Presenting Author), N Linton, M Koa-Wing, PB Lim, S Hayat, N Qureshi, Z Whinnett, W Davies, N Peters, D Francis, P Kanagaratnam (Hammersmith Hospital Campus, Imperial College Healthcare NHS Trust and Imperial College London, London UK)

09:45 NON-INVASIVE ELECTROCARDIOGRAPHIC MAPPING TO GUIDE ABLATION OF OUTFLOW TRACT VENTRICULAR ARRHYTHMIAS: PRE-PROCEDURAL LOCALISATION ACCURACY
S Jamil-Copley (Presenting Author), B Ryan, P Kojodjojo, N Qureshi, M Koa-Wing, S Hayat, A Kyriacou, B Sandler, A Sohaib, I Wright, W Davies, N Peters, Z Whinnett, P Kanagaratnam, PB Lim (Hammersmith Hospital Campus, Imperial College Healthcare NHS Trust and Imperial College, London UK)
10:00 LOW VOLTAGE AREAS IN ATRIAL FIBRILLATION DO NOT CORRELATE TO LGE-MRI DEFINED SCAR IN PATIENTS WITH PERSISTENT ATRIAL FIBRILLATION
NA Qureshi (Presenting Author), W Bai, B Ariff, A Williams, C Monro, S Kim, S Jamil-Copley, S Hayat, M Kao-Wing, A Kyriacou, B Sandler, NS Fu, P Kanagaratnam, Z Whinnett, DW Davies, D Lefroy, NS Peters, PB Lim (Imperial College, London UK, St Jude Medical, St Paul UK)

10:15 ATRIAL TACHYARRHYTHMIA IN ADULTS WITH TETRALOGY OF FALLOT - PATIENT CHARACTERISTICS AND SUCCESSFUL EXPERIENCE WITH RADIOFREQUENCY ABLATION IN A SINGLE UK CONGENITAL CARDIAC CENTRE.
MJ Ryan (Presenting Author), VA Ezzat, J O'Leary, C Bull, A Chow, P Lambiase, MD Lowe (The Heart Hospital, University College London Hospitals NHS Foundation Trust, London UK)

10:30 Break

Clinical EP
Chair: G Haywood

11:15 SPECIALIST ARRYTHMIA NURSE-LED RAPID ACCESS BLACKOUTS TRIAGE CLINIC: EXPERIENCE IN 2 CENTRES
AS Anwar (Presenting Author), S Collitt, P Iddon, N Rice, M Dodd, A Dunsdale, S Petkar, J Mudd, N Linker, AP Fitzpatrick (Manchester Heart Centre, Manchester UK; Newcross Hospital, Wolverhampton UK; James Cook University Hospital, Middlesbrough UK; Manchester Heart Centre, Manchester UK)

11:30 DABIGATRAN IMPROVES EFFICIENCY OF AN ELECTIVE DIRECT CURRENT CARDIOVERSION SERVICE
S Fraser (Presenting Author), W K Choo, G Padfield, G Rushworth, C Blox, P Forsyth, Sj Cross, Sj Leslie (Ragimore Hospital, Inverness UK)

11:45 DIFFERENTIAL RADIATION DOSE REDUCTION AMONGST SUB-SPECIALITY CARDIOLOGISTS AND THE IMPORTANCE OF TIBIAL PROTECTION
TT Phan (Presenting Author), M Dewhurst, D Lee, D Williams, S James, A Thornley, M De Belder, N Linker, A Turley (The James Cook University Hospital, Middlesbrough UK)
12:00  NATURAL HISTORY OF THE DEVELOPMENT OF PERSISTENT ATRIAL FIBRILLATION
NG Campbell (Presenting Author), E Cantor, V Sawhney, ER Duncan, C Demartini, V Baker, IG Diab, M Dhinoja, MJ Earley, S Sporton, LC Davies, RJ Schilling
(Queen Mary University of London, London UK)

12:15  HOW MANY PATIENTS FULFIL THE SURFACE ELECTROCARDIOGRAM CRITERIA FOR SUBCUTANEOUS IMPLANTABLE CARDIOVERTER DEFIBRILLATOR IMPLANTATION?
S J Pettit (Presenting Author), D A Randles, M Shaw, N M Hawkins, D J Wright (Liverpool Heart and Chest Hospital, Liverpool UK)

12:30  WORLDWIDE EXPERIENCE WITH A TOTALLY SUBCUTANEOUS ICD: EARLY RESULTS FROM THE EFFORTLESS S-ICD REGISTRY
PD Lambiase (Presenting Author), C Barr, R Knops MD, P Neuzil, D Theuns, J B Johansen, M Hood, S Pederson, HL Reeve, L Boersma (Heart Hospital, UCLH, London UK; Russells Hall Hospital, Dudley UK; Academic Medical Center, Amsterdam NL; Na Homolce Hospital, Prague CZ; Thoraxcentre, Erasmus Medical Center, Rotterdam NL; Odense University Hospital, Odense DK, Auckland City Hospital, Auckland NZ; Center of Research of Psychology in Somatic Diseases, Tilburg University, Tilberg NL; Boston Scientific, St Paul, USA; St. Antonius Hospital, Nieuwegein NL)

12:45  Close
AF REVALIDATION TOOL

A tool to aid GPs preparing for revalidation

Structured learning for practice improvement on AF

Learn. Reflect. Audit. Improve

Implement comprehensive stroke risk reduction among your AF patients

Automatically create portfolio content for revalidation

af-revalidation.org

Prof. Gregory Lip
Dr Andreas Wolff
Dr Matthew Fay
MODERATED POSTERS (1)
HALL 3

Monday 21 October 2013, 10:00 -10:45

43 EXPLORING THE ROLE OF PITX2C IN ATRIAL FIBRILLATION
G Riley (Presenting Author), S Hopkins, I Piccini, N Brown, L Fabritz, P Kirchhof (University of Birmingham, Birmingham UK, University Hospital Munster, Munster DE, St George’s University of London, London UK)

44 EXOME ARRAY ANALYSIS IDENTIFIES GENETIC VARIATION INFLUENCING SUDDEN ARRHYTHMIC DEATH SYNDROME
H Raju (Presenting Author), S Bevan, MN Sheppard, ER Behr (St George’s University, London UK; Royal Brompton Hospital, London UK)

45 FUNCTION REMODELING OF GAP JUNCTION COUPLING IN INTACT MYOCARDIUM IN HUMAN END-STAGE HEART FAILURE
FS Ng (Presenting Author), MS Sulkin, NS Peters, IR Eftimov (Imperial College London, London UK; Washington University in Saint Louis, Saint Louis USA)

46 DEVELOPMENT OF REDUCED-LEAD BODY SURFACE MAPPING SYSTEMS USING SPATIAL FREQUENCY ANALYSIS
FJ Vanheusden (Presenting Author), X Li, GS Chu, TP Almeida, FS Schlindwein, GA Ng (University of Leicester, Leicester UK)

47 AN ANALYSIS OF THE APPLICABILITY OF LEAD1 SCREENING FOR CARDIAC ARRHYTHMIA IN PRIMARY CARE SETTINGS USING NOVEL SENSING TECHNOLOGY & MULTIPLE COMMERCIAL ALGORITHMS FOR AUTOMATING DETECTION TO INCREASE PPV OF REFERRALS FOR FURTHER INVESTIGATION
CJ Crockford (Presenting Author), V Nangalia, R Berry (CardioCity Limited, Colchester UK, UCLH, London UK, Kent Surrey Sussex Academic Health Science Network, Crawley UK)

48 LEFT VENTRICULAR LEAD REVISION FOR FAILED CRT SHOULD BE PERFORMED BY THE TRANSVENOUS RATHER THAN SURGICAL EPICARDIAL APPROACH; RESULTS FROM A 10 YEAR REGISTRY
OS Dhillon (Presenting Author), W Ullah, R Hunter,
M Lovell, MB Dhinoja, S Sporton, MJ Earley, IG Diab, RJ Schilling (Cardiology Research Department, St Bartholomew’s Hospital, London UK)

49 SURVIVAL AFTER INTRACARDIAC DEFIBRILLATOR GENERATOR BOX CHANGE IN THE OCTOGENARIANS
M Goonewardene (Presenting Author), PM Heck, DA Begley, S Fynn, M Virdee, A Grace, SC Agarwal (Papworth Hospital, Cambridge UK)

50 IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICDS) IN OCTOGENARIANS: A RETROSPECTIVE SINGLE CENTRE STUDY
DG Wilson (Presenting Author), N Ahmed, R Nolan, A French, A Frontera, ER Duncan, G Thomas (Bristol Heart Institute, Bristol)

POSTER SESSION (1)
HALL 3
Monday 21 October 2013, 10:15-10:45

59 A COMPARISON OF THE HAEMODYNAMIC RESPONSE TO CARDIAC RESYNCHRONISATION THERAPY BETWEEN BIPOLAR AND QUADRIPOLAR LEADS
O Dhillon (Presenting Author), N Campbell, M Ginks, M Lovell, R Hunter, M Dhinoja, S Sporton, RJ Schilling, I Diab, MJ Earley (Cardiology Research Dept, St Bartholomews, London UK)

60 USE OF A CONTACT FORCE SENSING ABLATION CATHETER WITH ADVANCED CATHETER LOCATION SIGNIFICANTLY REDUCES FLUOROSCOPY TIME AND RADIATION DOSE IN CATHETER ABLATION OF PAROXYSMAL AND PERSISTENT AF
MJ Lovell (Presenting Author), RJ Hunter, G Lee, W Ullah, M Dhinoja, S Sporton, MJ Earley, RJ Schilling (Barts, London UK)

61 PACING THE PHRENIC NERVES AT THE RIGHT AND LEFT SUBCLAVIAN VEIN POSITIONS IS SUPERIOR TO PACING AT THE SUPERIOR VENA CAVA ALLOWING RIGHT AND LEFT PHRENIC NERVE MONITORING DURING BALLOON CRYOABLATION
J Ghosh (Presenting Author), S Gomes, S Singarayar, MA McGuire (Royal Prince Alfred Hospital, Sydney AU)
62 EXTRACTION OF BOTH SINGLE AND DUAL COIL IMPLANTABLE CARDIOVERTER DEFIBRILLATORS IS FEASIBLE AND ASSOCIATED WITH LOW MORBIDITY
FZ Ahmed (Presenting Author), B Clarke, CR Shepley, S Allen, M Mamas, AM Zaidi (Manchester Academic Health Sciences Centre, Manchester UK)

63 HEAVY ARRHYTHMIA BURDEN IN ADULTS WITH CONGENTIAL HEART DISEASE AND SEVERE PULMONARY HYPERTENSION
IP Temple (Presenting Author), H Schneider, RAM Nicoll, L Griffiths, VS Mahadevan (Central Manchester Foundation Trust, Manchester UK)

64 11-YEAR EXPERIENCE WITH THE WEARABLE CARDIOVERTER DEFIBRILLATOR IN THE UK
DWS Chong (Presenting Author), FZ Ahmed, S Allen, AM Zaidi (Manchester Heart Centre, Manchester UK)

65 IMPACT OF REMOTE DEVICE MONITORING TECHNOLOGY ON CLINIC WORKLOAD
PMX Foley (Presenting Author), S Phillips, R Ferro, S Brader, P Charlton, B Chandrasekaran, E Barnes (The Great Western Hospital, Swindon UK)

66 MRI ASSESSMENT OF MECHANICAL DYSSYNCHRONY IN PATIENTS WITH HEART FAILURE AND NARROW QRS
S Amraoui (Presenting Author), M Sohal, T Jackson, Z Chen, E Sammut, G Carr-white, A Rinaldi (St Thomas’s Hospital, London UK)

67 SETTING THE STANDARD; PROPOSED NATIONAL RADIOGRAPHIC DIAGNOSIS REFERENCE LEVELS FOR BIVENTRICULAR DEVICE IMPLANTATION
Z Salih (Presenting Author), GM Morris, GJ Wynn, B Brown, D J Wright, A Zaidi (Manchester Royal Infirmary, Manchester UK, Liverpool Heart and Chest Hospital, Liverpool UK, University of Manchester, Manchester UK)

68 ANTICOAGULATION IN ATRIAL FIBRILLATION – AN UNDERUTILISED LIFESAVER
AJ Smith (Presenting Author) P McGuigan, P Fisher (University of Manchester, Manchester UK; Ellesmere Medical Centre, Stockport UK)
69 COPING STRATEGIES BEFORE AND AFTER IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD) IMPLANT - CAN THEY BE IMPROVED BY A NURSE-LED PSYCHO-EDUCATIONAL INTERVENTION?
J Tagney (Presenting Author), S Palmer, M Morris, JW Albarran, L Lockyer (Bristol Heart Institute, UHBristol NHS FT, Bristol UK; University of the West of England, Bristol UK)

70 COMPARISON BETWEEN PRIMARY AND SECONDARY PREVENTION IMPLANTABLE CARDIOVERTER DEFIBRILLATOR (ICD) IMPLANTATION RATES AND ANALYSIS OF APPROPRIATE AND INAPPROPRIATE THERAPIES DELIVERED
I Newman (Presenting Author) (Glenfield Hospital, Leicester UK)

MODERATED POSTERS (2)
HALL 3

Tuesday 22 October 2013, 10:00 -10:45

51 UTILITY OF AN OESOPHAGEAL TEMPERATURE PROBE AS A REFERENCE ELECTRODE FOR GEOMETRIC MAPPING DURING LEFT ATRIAL CIRCUMFERENTIAL ABLATION
CR Hayes (Presenting Author), S Fletcher-Cooper, B Pardoe, M Jones, K Rajappan, T R Betts, Y Bashir, K Wong. (John Radcliffe Hospital, Oxford UK)

52 IMPACT OF CATHETER BASED CONTACT FORCE MEASUREMENT ON PERSISTENT AF ABLATION WITH AND WITHOUT ROBOTIC NAVIGATION
W Ullah (Presenting Author), R Hunter, M Lovell, A McLean, C Kirkby, V Baker, M Dhinoja, S Sporton, M Earley, R Schilling (St Bartholomew’s Hospital, London UK, London Independent Hospital, London UK, London Bridge Hospital, London UK)

53 TWO-CENTRE EVALUATION OF THE ANGIO MENTOR ELECTROPHYSIOLOGY SIMULATOR
W Ullah (Presenting Author), R Marazzi, R Hunter, M Dhinoja, S Sporton, R De Ponti, R Schilling (St Bartholomew’s Hospital, London UK; University of Insubria, Varese IT)
54 HYBRID CONVERGENT ATRIAL FIBRILLATION ABLATION: FIRST IN UK EXPERIENCE
N Child (Presenting Author), J Bostock, C Rinaldi, M Wright, M O’Neill, M Cooklin, C Blauth, J Gill (Guys and St. Thomas’ Hospital, London UK)

55 DEPRIVATION AND ACCESS TO CARDIAC RESYNCHRONIZATION THERAPY
NG Campbell (Presenting Author), MJ Lovell, M Saey, K Pates, J Evans, V Sawhney, IG Diab, M Dhinoja, MJ Earley, S Sporton, LC Davies, RJ Schiling (Queen Mary University of London, London UK)

56 SCAR LOCATION MAY PREDICT ARRHYTHMOGENICITY DURING VENTRICULAR TACHYCARDIA ABLATION IN PATIENTS WITH ISCHAEMIC CARDIOMYOPATHY
A Li (Presenting Author), H Gonna, P Dhillon, R Bastiaenen, Z Zuberi, M Gallagher, E Behr, D Ward, M Saba (St George’s University of London, London UK)

57 SYSTEMATIC ECHOCARDIOGRAPHY BEFORE PERMANENT PACING - ESSENTIAL BUT RARELY PERFORMED, A SINGLE CENTRE AUDIT
S Badiani (Presenting Author), S Chandran, N Liow, C Sugihara, H Patel, AM Newsholme, S Bridgland, N Sulke, S Furniss, G Lloyd, N Patel (Eastbourne District General Hospital, Eastbourne UK)

58 RADIOFREQUENCY ABLATION OF ATRIAL ARRHYTHMIA FOLLOWING ATRIAL SWITCH FOR TRANPOSITION OF THE GREAT ARTERIES
IG Matthews (Presenting Author), JJ O’Sullivan, SW Lord, S Murray (Freeman Hospital, Newcastle-upon-Tyne UK)
POSTER SESSION (2)
HAL 3

Tuesday 22 October 2013, 10:15-10:45

71 LOSS OF INHIBITORY G PROTEIN GαO IN THE PRE-SYMPATHETIC AREA OF THE BRAINSTEM LEADS TO INCREASED SYMPATHETIC TONE TO THE HEART AND PREDISPOSES TO VENTRICULAR ARRHYTHMIA
R Ang (Presenting Author), L Birnbaumer, AV Gourine, A Tinker (University College London, London UK; National Institute of Environmental Health Sciences, North Carolina USA; Queen Mary, University of London, London UK)

72 CONGENITAL HEART BLOCK MATERNAL SERA AUTOANTIBODIES TARGET AN EXTRACELLULAR EPIITOPE ON THE A1G T-TYPE CALCIUM CHANNEL IN HUMAN FETAL HEARTS
RM Hamilton (Presenting Author), L Strandberg, X Cui, A Rath, J Liu, V Sirigam, C Ackerly, E Aeggi, P Backx, ED Silverman (Hospital for Sick Children, Toronto CA, Lewar Institute, University of Toronto, Toronto UK)

73 CHARACTERISING THE STRUCTURAL AND ELECTRICAL REMODELLING POST INFARCTION-REPERFUSION IN A SMALL ANIMAL MODEL OF CLINICAL PRACTICE
MT Debney (Presenting Author), FS Ng, AR Lyon, NS Peters (Imperial College London, London UK)

74 THE ABSENCE OF THE REGULATOR OF G-PROTEIN SIGNALLING, RGS 4, PREDISPOSES TO THE INITIATION OF ATRIAL FIBRILLATION (AF) MAKING IT A POTENTIAL THERAPEUTIC TARGET IN THE TREATMENT OF AF
A Opel (Presenting Author), M Nobles, A Tinker (University College London, London UK; William Harvey Heart Centre, Barts and the London School of Medicine and Dentistry, London UK)

75 THE DIRECT ANTI-FIBRILLATORY EFFECTS OF VAGUS NERVE STIMULATION ARE MEDIATED BY A REDOX SENSITIVE SIGNALLING PATHWAY
J Winter (Presenting Author), SH Chin, KE Brack, GA Ng (University of Leicester, Leicester UK)
76 EFFECTS OF MENTAL STRESS ON CARDIAC ELECTROPHYSIOLOGY: A PARALLEL HUMAN & MURINE STUDY
MC Finlay (Presenting Author), L Xu, M Nobles, J Lane, M Lowe, R Ben-Simon, J Bhar-Amato, Q Hussain, S Sebastian, P Taggart, A Tinker, PD Lambiase (UCL, London UK; QMUL, London UK, UCL, Lowe UK)

77 ATRIAL ELECTROGRAM COMPLEXITY AS A CLINICAL INSTRUMENT FOR MEASURING TEMPORAL FRACTIONATION VARIABILITY DURING ATRIAL FIBRILLATION
TP Almeida (Presenting Author), J Salinet, GS Chu, FS Schlindwein, GA Ng (University of Leicester, Leicester UK)

78 IN VIVO METHOD FOR DETERMINING PATIENT-SPECIFIC ATRIAL ELECTRICAL CONDUCTIVITIES AND FIBER ORIENTATION
SE Williams, NWF Linton, J Harrison, M Wright, G Plank, MD O’Neill, S Niederer (King’s College London, London UK; Medical University of Graz, Graz)

79 RIGHT-TO-LEFT ATRIAL FREQUENCY GRADIENTS IN PATIENTS WITH PERSISTENT ATRIAL FIBRILLATION
DT Raine (Presenting Author), P Langley, E Shepherd, S Lord, S Murray, JP Bourke (Freeman Hospital, Newcastle UK; Newcastle University, Newcastle UK)

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Z Chen (Presenting Author), B Hanson, M Sohal, N Child, E Sammut, T Jackson, A Shetty, J Bostock, J Gill, G Carr-White, CA Rinaldi, P Taggart (King’s College London, London UK; University College London, London UK)

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SE Williams, NWF Linton, J Harrison, M Wright, K Rhode, MD O’Neill (King’s College London, London UK)

82 LIFE WITH AN ICD PROGRAMME
S Barrows (Presenting Author), K Jones, N Porter (Wirral Heart Support Centre, St Catherines Hospital, Birkenhead)
### Faculty List

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Exhibitors

Stand: T8
3M is committed to supporting healthcare professionals in preventing healthcare acquired infections, providing peri-operative, patient warming and infection prevention solutions to support you in improving the quality, cost and outcomes of patient care. At HRC 2013, 3M will be showcasing Littmann Stethoscopes, renowned worldwide for precision, acoustic superiority and innovative design.

www.3m.co.uk/ip

AF Association

Stand: T17
The AF Association provides support, information and guidance to anyone affected by atrial fibrillation (AF). AF-A works in partnership with patients and clinical experts to advance the education of both the medical profession and the general public on the risks, detection and treatment of AF. Please visit the stand for FREE medical and patient resources.

www.atrialfibrillation.org.uk

Stand: T14
AliveCor, Inc. has developed the FDA-cleared and CE-marked AliveCor Heart Monitor for iPhone. This clinical-quality, cost effective mobile ECG device enables patients to monitor their heart health anywhere, at any time, and provides medical professionals with an additional heart health assessment tool. The monitor records, displays, stores, and transfers single-channel ECGs.

www.alivecor.com
Stand: S3
Ambu can now offer whole hospital monitoring and diagnostic solutions saving both time and money and ensuring that you have the best possible products for each procedure. We offer our customers full training in application of our electrodes and educational support. Visit us on stand S3 to see how we can meet your department's needs.

www.ambu.co.uk

All-Party Parliamentary Group on Atrial Fibrillation

Stand: T23
To raise awareness of atrial fibrillation (AF) and ensure the diagnosis, care, treatment, management and research of AF is a priority of the NHS.

www.atrialfibrillation.org.uk/parliamentary-focus/westminster.html

The Arrhythmia Alliance

Stand: T18
The Arrhythmia Alliance is a coalition of charities, professional medical organisations and industry groups that works to promote the timely diagnosis and effective management of arrhythmias.

By raising awareness and campaigning for the improved detection and care of heart rhythm disorders, Arrhythmia Alliance aims to extend and improve the lives of the millions around the world that these conditions effect.

Please visit the stand for FREE medical and patient resources.

www.heartrhythmcharity.org.uk
**Stand: S1**
BARD Electrophysiology is a global company focused on the development and delivery of a broad range of devices for the diagnosis and treatment of cardiac arrhythmias. Our products include: temporary pacing wires; diagnostic and therapeutic electrophysiology catheters; the Bard LabSystem Pro EP recording system and Micropace Cardiac Stimulator.

www.bardep.com & www.barduk.com

**Stand: B8**
Baylis Medical is a world leader in providing products that deliver radiofrequency energy for the creation of controlled punctures in cardiac tissue and vascular occlusions. The Baylis NRG™ RF Transseptal needle, as published in various studies, has shown improvement in the safety and the efficacy of transseptal punctures while removing the danger of skiving thrombogenic particles.

www.baylismedical.com

**Stand: G5**
Guided by the needs of Electrophysiologists and Cardiologists, Biosense Webster has pioneered innovative technological advancements for more than 30 years. From the first deflectable tip catheter to today's most sophisticated 3-D cardiac mapping and navigation system – Carto®3, our products and services continue to help Electrophysiologists expand the boundaries of their field.

www.biosensewebster.com
Stand: P2
Since 1963, BIOTRONIK has proven the quality and reliability of its products and as a reliable partner for both physicians and patients. With 5,600 employees in over 100 countries, BIOTRONIK is now one of the largest cardiovascular medical technology companies worldwide. Quality, innovation & clinical excellence define BIOTRONIK's success.
www.biotronik.com

Stand: G3
The Boehringer Ingelheim group is one of the world’s 20 leading pharmaceutical companies. Headquartered in Germany, it operates globally with over 44,000 employees. Since its foundation in 1885, the family-owned company has been committed to researching, developing, manufacturing and marketing high therapeutic value novel products for human and veterinary medicine.
www.boehringer-ingelheim.co.uk

Boston AF Symposium
Stand: T13
The Boston AF Symposium will be held January 9-11, 2014 at the Orlando World Center Marriott in Orlando, FL. The Boston AF Symposium is an intensive and highly focused three-day symposium that brings together leading medical scientists from around the world to teach, discuss and debate in a highly interactive environment the most current advances in the field of atrial fibrillation.
www.afsymposium.com
Stand: P4
Boston Scientific is dedicated to transforming lives through innovative medical solutions that improve the health of patients around the world. We provide solutions for treating irregular heart rhythms and heart failure, and protecting against sudden cardiac arrest.
www.bostonscientific.com

Stand: G4
Bristol-Myers Squibb/Pfizer Collaboration:
In 2007, Bristol-Myers Squibb and Pfizer entered into a worldwide collaboration to develop and commercialise apixaban, an investigational oral anticoagulant discovered by Bristol-Myers Squibb. This global alliance combines Bristol-Myers Squibb’s long-standing strengths in cardiovascular drug development and commercialisation with Pfizer’s global scale and expertise in this field.
www.b-ms.co.uk & www.pfizer.co.uk

Stand: B9
For over 50 years the British Heart Foundation has pioneered research that’s transformed the lives of people living with heart and circulatory conditions. Our work is central to the discovery of vital treatments, improvement of patient services, and communicating vital health information to help the UK fight for every heartbeat.
www.bhf.org.uk
Stand: T11
British Journal of Cardiac Nursing is the UK’s only monthly journal dedicated to cardiac nursing. With leading clinical coverage and professional focus, the journal addresses all aspects of cardiovascular nursing in an intelligent, helpful and accessible way. There is simply no better resource than British Journal of Cardiac Nursing.
www.cardiac-nursing.co.uk

Stand: T20
Cardiac Rhythm News is a specialised, quarterly, newspaper dedicated to cardiac rhythm management specialists. It contains the latest news, opinion from thought leaders, summaries of cutting-edge research, expert analysis, conference coverage and updates on the latest products in the heart rhythm world.
Contact details: Editorial - Angela Gonzalez, angela@bibamedical.com
Advertising - Noora Lobo, noora@bibamedical.com
www.cardiacrhythmnews.com

Stand: T4
Cardiac Services is at the forefront of supplying and supporting diagnostic and measurement equipment throughout the UK and Ireland. Cardiac Services will be exhibiting the Philips Healthcare range of Pagewriter TC Cardiographs throughout the congress.
www.cardiac-services.com
Cardiology News is a unique, highly regarded publication providing an invaluable forum for the communication of news and information from every aspect of cardiology. Aimed at cardiologists, cardiac surgeons, physiologists, cardiac nurses and GPs, each issue features commercially unbiased articles from renowned experts, case reports, journal reviews, conference information and industry updates.

www.cardiologynews.uk.com

Recycling Platinum from medical devices for over 20 years and giving the best deal in the process. See us at cascaderefining.com/free-mailer-kit for your prepaid mailer kit and send us your used EP catheter tips, guide wires and more. Bringing more funds to you and recycling a precious resource.

www.cascaderefining.com

PACENET is a comprehensive electronic management system for all cardiac implanted electronic devices, designed and developed by Clinical Network Systems. First installed in the Royal Brompton & Harefield NHS Foundation Trust, it provides a complete end-to-end paperless solution for managing all implanted devices and a 100% complete CCAD return.

www.clinicalnetworksystems.com
Stand: B5

COOK MEDICAL, is the industry pioneering leader in Lead Extraction devices designed for both the superior and femoral approaches. The ADVANCED PLATFORM devices for Lead Extraction include: the ONE-TIE™ Compression Coil, Evolution® RL and Evolution® Shortie RL Controlled-Rotation Dilator Sheath Sets, and the Evolution® SteadySheath™ Tissue Stabilization Sheath. Please come visit the stand.

www.cookmedical.com

Stand: B6

Dot Medical Ltd – solving your problems with new solutions:
- Save £££: let Dot recycle your EP catheters
- Reduce ablation time and re-do’s: CardioFocus Laser Ablation
- Non invasive cardiac output monitoring ICON
- Safer lab. Environments: Amigo Robot
- Protect heart patients with Lifevest

www.dot-medical.com

Stand: T9

Endosense pioneered the use of contact-force measurement with its TactiCath®, the first force-sensing ablation catheter. Endosense launched TactiCath in Europe in 2010 and has conducted numerous clinical trials showing time reduction in ablation procedures, increased outcomes and better procedure efficiency. Capitalizing on its experience, the company launched its 3rd generation TactiSys Quartz® in 2012.

www.endosense.com
Stand: T10
DON'T CUT YOUR TIPS! Earn 4 times more money than the platinum tip value on many used EP Catheters and Devices. 75+
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www.epreward.com

Stand: T2
Express Diagnostics is a Nationwide Cardiology Services Provider,
carrying our Holter Analysis, Remote ECG Analysis and Remote Monitoring Services for Implantable Cardiac Devices
www.expressdiagnostics.co.uk

Stand: B1
GE Healthcare is a global leader in medical imaging, diagnostic cardiology, information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies.
Visit the GE booth to see the latest ComboLab XTi EP System, MicroPace stimulator, new CardioDay Holter ECG System with sleep apnoea detection, new MAC 5500HD high definition ECG System with bi-vent pacemaker detection & analysis, new MUSE version 8 ECG Management System with bi-directional wireless transmission.
www.gehealthcare.co.uk
Heart Rhythm UK is a charitable organisation affiliated to the British Cardiovascular Society and acts as a unifying focus for all healthcare professionals involved in the management of patients in the UK with abnormalities of the heart rhythm and rhythm controlling devices.

The society has members drawn from professional bodies including Consultant Cardiologists, Cardiac Physiologists, Arrhythmia Nurses and trainees from each of these disciplines; the society aims to provide education, information, promotion of research and professional support for members.

Heart Rhythm UK has close working relationships with the Arrhythmia Alliance, colleagues in the medical equipment industries (ABHI) and the Medicines and Health products Regulatory Agency (MHRA).

www.heartrhythmuk.org.uk

INRstar – Comprehensive anticoagulation management solution

INRstar assists healthcare professionals with the control and management of anticoagulation patients in primary and secondary care. Hosted centrally on the NHS N3 Network, INRstar is specifically designed to be more flexible and responsive to service provider requirements.

INRstar interfaces to TPP SystmOne, EMIS (LV, PCS and EMIS Web) and INPS Vision.

www.INRstar.co.uk

McKesson Imaging & Workflow Solutions

www.mckesson.com
**Stand: P1**

Medtronic is the global leader in medical technology—alleviating pain, restoring health and extending life for millions of people around the world. Every year, Medtronic provides medical professionals with products and therapies to help improve the lives of nearly 6 million people.

[www.medtronic.co.uk](http://www.medtronic.co.uk)

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**Stand: T7**


The World’s first Blood Pressure Monitors that can detect AF with a sensitivity of 97-100% and a specificity of 89% Microlife Corporation officially states that The Microlife WatchBP family is unique and innovative, it entails a family of BP devices that are designed for all three forms of measurements: home (for clinical use), office and 24-h Blood pressure measurement. All three devices are exactly designed according to the latest ESH guidelines for blood pressure measurement.

[www.watchbp.co.uk](http://www.watchbp.co.uk)

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**Stand: B7**

Novacor UK are established and dedicated specialists in ambulatory patient monitoring for ECG, ABPM and Sleep Apnoea. Talk to us at HRC 2013 stand B7 about our innovative solutions for the detection of AF/PAF, stroke prevention and our arrhythmia detection and screening solutions for primary and secondary care.

[www.novacor.co.uk](http://www.novacor.co.uk)
Philips is a diversified health and well-being company and a world leader in healthcare, lifestyle and lighting. Our vision is to make the world healthier and more sustainable through meaningful innovation. We develop innovative healthcare solutions, from the hospital to the home, to improve patient outcomes, provide better value and expand access to care.

www.philips.co.uk/healthcare

Roche is a leader in research-focused healthcare with combined strengths in pharmaceuticals and diagnostics. Roche’s personalised healthcare strategy aims at providing medicines and diagnostic tools that enable improvements in quality of life and survival of patients. Roche POC provides monitoring services in haematology and cardiovascular care. Enquiries 01444 256000.

www.roche.co.uk

SMART Medical supply a range of innovative cardiovascular diagnostic systems, including the Finapres range of monitors for syncope assessment. At HRC2013 we will be launching the newest Finapres device: the Finapres NOVA. The NOVA provides a comprehensive solution for tilt table testing and also a new unique automated protocol for pacemaker optimisation.

www.smartmedical.co.uk
Stand: G1

Sorin Group CRM’s vision delivers better outcomes for heart failure patients through innovation. Our SonR device provides 23% responder rates for CRT patients by automatically optimising them weekly at rest and exercise. Along side our MRI and Sleep Aponea Diagnostic pacemakers, trusted leads and burden free remote monitoring.

www.sorin.com

Stand: G2

Our vision what we aspire to – we will transform the treatment of expensive epidemic diseases. Our Mission what we do – we create cost-effective medical technologies that save and improve lives. Our Values who we are as individuals and as a group – we see things from a different perspective, we use our imagination, we lead with character, we work with passion.

www.sjm.com

Stand: T16

STARS is the leading patient advocacy organisation providing guidance and information on syncope, a common cause of unexplained blackouts or faints. STARS aims to ensure that anyone with unexplained loss of consciousness receives timely diagnosis, effective treatment, support and direction to appropriate medical professionals.

Please visit the stand for FREE medical and patient resources.

Tel: +44 (0) 1789 450 564

www.stars.org.uk / www.stars-international.org
Wisepress, Europe’s leading conference bookseller has a complete range of relevant books and journals which can be purchased at the stand or, if you would rather not carry them, posted to you – Wisepress will deliver worldwide. We also have a comprehensive medical and scientific online bookshop with great offers.

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Your World Healthcare are proud to be one of the leading Healthcare Recruitment Agencies. Our Specialist Cardiology Consultants have established a reputation for placing high calibre, hard to find Physiologists for a diverse range of Cardiology vacancies in the UK and Ireland, throughout the NHS and Private sector.

www.yourworldhealthcare.co.uk

Zenicor Medical Systems AB, founded in 2003, has grown into one of Scandinavia’s leading medical technology companies for remote cardiac diagnostics. Zenicor offers a user-friendly and efficient equipment for diagnosis and monitoring of cardiac patients outside the hospitals. The device has proven to be especially effective detecting cardiac arrhythmias.

www.zenicor.com
Acknowledgements

The HRC Executive Committee wish to express its gratitude to the following for their support:

**Platinum**
- BIOTRONIK
- Boston Scientific
- Medtronic

**Gold**
- Biosense Webster
- BMS/Pfizer
- Boehringer Ingelheim
- Sorin
- St Jude Medical

**Silver**
- Ambu
- Bard EP
- McKesson Imaging & Workflow Solutions

**Bronze**
- Baylis Medical
- British Heart Foundation (BHF)
- Cascade Refining, Inc
- Cook Medical

**Other Exhibitors**
- 3M Healthcare
- AF Association
- Alivecor, Inc
- Arrhythmia Alliance
- Boston AF Symposium
- British Journal of Cardiac Nursing
- Cardiac Rhythm News
- Cardiac Services
- Cardiology News
- Clinical Network Systemsl
- Endosense
- EPreward
- Express Diagnostics
- Heart Rhythm UK
- INRstar
- Microlife Healthcare
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