Annual Conference Programme

5 – 7 June 2017,
Manchester Central, Manchester

Promoting excellence in cardiovascular care
Welcome

BCS Annual Conference 2017
On behalf of the British Cardiovascular Society President and the Programme Committee for the Annual Conference 2017, I am delighted to welcome you to Manchester. There is little doubt that there is an increasing – rather than decreasing – need for today’s cardiologists to have a broad understanding of all the major subspecialist areas. The BCS Annual Conference is uniquely positioned to facilitate this in one meeting. The 2017 programme will once again feature an array of informative, entertaining and interactive sessions, debates, panel discussions, workshops and addresses from international leaders in the field. The already close collaboration with the British Heart Foundation continues in 2017.

The Main Programme
The theme running through the core of the 2017 Programme will be Cardiology at the Extremes, and we are delighted that Dr Benjamin Levine will deliver this year’s Opening Ceremony Keynote Speech ‘Will the right (cardiovascular) stuff get humans to Mars: reflections of a Space Cardiologist’.
The 2017 Paul Wood Lecture ‘Personalised medicine and computational cardiology – enhancing cardiovascular care and health in the next era’ will be delivered by Dr Harlan Krumholz.

‘Extreme phenotypes in Pulmonary Arterial Hypertension: from genes to novel therapies’ is the title of this year’s BHF Bench-to-Bedside session, facilitated by Prof Nick Morrell. The Bench-to-Bedside format session consists of a series of presentations (basic, translational or clinical) on a particular clinical condition given by members of a single unit, the aim being to give an insight into the vision and organisation of a successful clinical research department.
The Strickland Goodall Lecture for 2017 ‘Exploring the extremes of myocardial injury’ will be delivered by Prof Michael Marber.

Scientific Programme highlight
An animal ecophysiologist and zoologist, Prof Craig Franklin is based in the School of Biological Sciences at the University of Queensland, Australia. Craig’s research takes him on expeditions from the poles to the tropics to deserts, with many of his studies focusing on how life has evolved to meet the physiological challenges associated with living under extreme environmental conditions. His talk on ‘Diving in Crocodiles: Cardiovascular Intricacies and Tricks’ will delve into field based physiology, and argue that the heart of one particular creature is the most sophisticated and complex in the animal kingdom.

Something completely different for 2017
We always try and bring ‘something different’ to the Conference and this year, to emphasise the “Extremes” theme, renowned polar photographer Sue Flood will be delivering a talk on ‘Adventures in the Polar Extremes’.
This will be delivered in conjunction with a talk on ‘South Georgia, Shackleton and the Heart’, by Mr Martin Thomas and Dr Janice Till.

Further highlights of the main programme include:
> National Training Day: including Endocarditis MDT-Live, Cardiology in the ITU, and a special joint session with the Royal College of Physicians.
> Imaging: dedicated imaging track; abstract poster sessions; integrated imaging content in the highlight sessions of the programme; sessions on cardiac sarcoid, cardiac amyloid, and the investigation of stable chest pain; many imaging hot topics.
> **Arrhythmias**: sessions on prediction of sudden death and enigmas in arrhythmias: arrhythmia abstract sessions; discussion of arrhythmia clinical cases (MDT-Live); an AF update, cardiac syncope and driving and ‘Who needs an implantable device in 2017?’ There will be a whole track of arrhythmia hot topics throughout the 3 days.

> **Intervention**: BCIS sessions on myocardial infarction and percutaneous management of structural heart disease; sessions on ACS in the post-troponin era and assessment of patients with suspected stable angina; BHVS session on tricuspid valve disease: abstract sessions and a whole track of interventional hot topics throughout the 3 days.

> **Heart Failure**: sessions on Landmark Trials in Heart failure and Heart Failure Crises. An innovations in cardio-oncology session linked with heart failure abstracts and a whole track of heart failure hot topics throughout the 3 days.

> **Adult congenital heart disease**: sessions on pulmonary hypertension, Pregnancy MDT-Live and aortopathies, together with abstracts and hot topics.

> **Clinical Science and Translational Research in the Innovations in Clinical Cardiology track**, including the Michael Davies Early Career Award. A highlight session on ‘Will stem cell research change clinical practice?’ organised jointly by BCS, BSCR and BAS.

> **Basic Science**: the BAS/BSCR Spring Meeting focusing on New Frontiers in Cardiovascular Science with sessions including 1) Adipose tissue and the cardiovascular system; 2) Cardiac and arterial ageing; 3) Leukocytes in cardiovascular inflammation; 4) Diabetes and cardiovascular disease. Also basic science abstract poster sessions, the John French lecture and basic science hot topics.

> **Young Investigators Prize**: The new combined prize administered by BCS, BSCR and BAS.

> **Hypertension and Stroke**: A joint session with the British and Irish Hypertension Society, and the British Association of Stroke Physicians.

> **Education for Revalidation (E4R) sessions** including ‘Top 10 Trials’ and ‘Life Long Learning’ and the ever-popular BCS Quiz hosted by Rod Stables.

> **Multisession tracks** dedicated to Patients (CCPUK) and Healthcare Scientists.

> **International sessions** in association with the European Society of Cardiology, American College of Cardiology, and Irish Cardiac Society.

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**Education Hall**

The 2017 Annual Conference will feature a dedicated area for interactive education provided by the BCS, the BHF and industry colleagues. This year’s Education Hall will feature:

> 100+ Hot Topic sessions
> Poster sessions
> Simulator Training: 2017 will see a variety of technical simulators available with supervised training by experienced consultants
> Imaging Village: Interactive, supervised work stations for CT, MRI, echo and nuclear imaging
> MRI scanner on site: volunteers will undergo scans and delegates can get involved in post processing and interpretation

**Navigation of the Programme**

There is so much going on during the 3 days that it is possible to miss sessions that you would have liked to have attended. If you are looking for a broad update in clinical cardiology – with an element of entertainment – you could do a lot worse than sit in the Auditorium throughout the conference. You will see the majority of the highlight sessions, the BCS “named” lectures together with a selection of sessions on heart failure, valve and coronary disease.

Alternatively you could pick one of the “tracks” e.g. Basic Science, Innovations in Clinical Cardiology, Education for Revalidation, or drop in and out according to your particular interests, perhaps interspersed with some “hot topics” in the Education Hall. If you want to update on your guidelines knowledge then the Life Long Learning sessions are probably your best bet.

Full and further details of all that is happening over the next 3 days can be found in the pages that follow. I hope you have an enjoyable and educationally rewarding time at the 2017 BCS Annual Conference.

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Prof Cliff Garratt
BCS Vice-President (Education & Research),
Chair of Programme Committee

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Welcome
Practical and Logistical Information

Conference Venue: Manchester Central Convention Complex, Windmill Street, Manchester M2 3GX

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<th></th>
<th>Registration</th>
<th>Main Programme</th>
<th>Education Hall &amp; Exhibition</th>
<th>Social Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon 5 June</td>
<td>08:00 – 18:00</td>
<td>09:00 – 19:00</td>
<td>09:30 – 17:30</td>
<td>19:00 – 20:00</td>
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<tr>
<td>Tues 6 June</td>
<td>08:00 – 18:00</td>
<td>08:30 – 18:30</td>
<td>08:00 – 17:30</td>
<td>19:30 – 24:00</td>
</tr>
<tr>
<td>Wed 7 June</td>
<td>08:00 – 15:00</td>
<td>08:30 – 17:00</td>
<td>08:00 – 16:00</td>
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</table>

Conference Times

Registration: Conference registration is located in the main foyer immediately inside the main entrance – where conference badges and materials are collected. Information and assistance regarding the conference is available during the above hours.

Conference Badges: must be worn at all times when attending any aspect of the conference taking place at Manchester Central.

Internet Access: Complimentary WiFi is available for all attendees throughout the venue. There will also be free internet access available at the BCS.com stand.

Keep up-to-date online and on the move:

> Visit www.bcs.com/conference for: full online programme details; daily session podcasts and much more
> Download our free App available for Apple and Android (search for “BCS Conf 2017” or use QR Code) for:
  - Full, searchable details of the programme and faculty
  - Floor plans and maps
  - Receive breaking event news and alerts

Register, using your email address to:

  - Build a personalised itinerary
  - Communicate with exhibitors, faculty and delegates
  - Take notes against sessions

Follow us on Twitter @BritishCardioSo or use #BCS2017

Refreshments and lunch: Free tea and coffee will be available in the Education Hall. A light lunch will also be provided daily for all attendees. Additionally there will be a cash bar where lunch, snacks and beverages can be purchased throughout the day. Please see the Education Hall floor plan for more information.

Speaker Preview Room: This is located opposite the Main Reception, on the far right hand side. All presentations for the main Programme and Hot Topics must be presented to the IT team at least 3 hours in advance of the sessions, or the night before if speaking in the first session of the day.

Organiser’s Office: The Organiser’s Office is located in the Education Hall. The contact telephone number during the Conference is 0161 827 7642.

Accessibility: All entrances are fully accessible and foyer entrances are sensor-activated. The first floor can be accessed via stairs or lifts. Assistance dogs are welcome and Induction Loop facilities are available in Exchange Auditorium and Central and Charter Foyers.
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Affiliated Groups
The following BCS Affiliated Groups are represented at the meeting:
A-A Arrhythmia Alliance
BACPR British Association for Cardiovascular Prevention & Rehabilitation
BANCC British Association for Nursing in Cardiovascular Care
BAS British Atherosclerosis Society
BCCA British Congenital Cardiac Association
BCIS British Cardiovascular Intervention Society
BCOS British Cardio-Oncology Society
BHRS British Heart Rhythm Society
BIHS British and Irish Hypertension Society
BHVS British Heart Valve Society
BJCA British Junior Cardiologists’ Association
BNCS British Nuclear Cardiology Society
BSCI British Society of Cardiovascular Imaging
BSCMR British Society of Cardiovascular Magnetic Resonance
BSCR British Society for Cardiovascular Research
BSE British Society of Echocardiography
BSH British Society for Heart Failure
CCP (UK) Cardiovascular Care Partnership (UK)
SCST Society for Cardiological Science and Technology

British Heart Foundation
The British Cardiovascular Society extends grateful thanks to the British Heart Foundation for its generous support of the Conference. The existing collaboration with BHF has increased further this year, with a number of new BHF sessions in the main programme in addition to BHF Hot Topics and the BHF Alliance – Shaping the Future networking session. Please do visit the BHF stand in the Education Hall to learn more about the work and the auction, raffle and prize giving at the BCS Annual Dinner. BAS and BSCR also thank the British Heart Foundation for the support of the Basic Science track.

Linked Days
A number of BCS Affiliated Groups have full-day symposia linked to our Conference, at which all are welcome to attend. Please refer to pages 19-59 for full details of sessions and speakers.

Monday/Tuesday
The BAS/BSCR Spring Meeting – ‘New Frontiers in Cardiovascular Science’ (Charter 2/3) features a range of basic science sessions and The John French Lecture, presented this year by Dr Murray Clarke. The Monday sessions close with a BHF hosted reception for BAS/BSCR members and attendees.

Tuesday
The Cardiology in Primary Care day (Charter 1). This one day meeting, with sessions chaired by General Practitioners, aims to highlight practical clinical management issues in patients with common cardiovascular conditions.

Following the success of last year’s Healthcare Science day, we are running a range of sessions in Exchange 8, 9, 10 for Clinical Physiologists and Healthcare Scientists.

The BHF Alliance: Shaping the Future session (Charter 4) will set the scene for the BHF’s plans to harness the learning and expertise of Alliance members to build relationships and collective leadership in CVD service change.

Wednesday
CCP(UK) present sessions in Exchange 11 of interest to service users, patients and carers.

Podcasts
Produced in conjunction with the BMJ and available for download from the BCS website each day.
Programme Highlights

Opening Ceremony and Lecture
The ceremony will be introduced by the President of the BCS, Dr Sarah Clarke, and followed by the Opening Lecture given by Dr Benjamin Levine, entitled ‘Will the right (cardiovascular) stuff get humans to Mars: reflections of a Space Cardiologist’.

Benjamin Levine

Named Lectures

Paul Wood Keynote Lecture – Dr Harlan Krumholz will speak on ‘Personalised medicine and computational cardiology – enhancing cardiovascular care and health in the next era’ from 17:00 – 18:00 on Monday in the Auditorium.

Strickland Goodall Lecture – Prof Michael Marber will discuss ‘Exploring the extremes of myocardial injury’ from 17:30 – 18:30 on Tuesday in the Auditorium.

BHF ‘Bench-to-bedside’ – Extreme phenotypes in Pulmonary Arterial Hypertension: from genes to novel therapies
(Monday 10:45 – 12:15, Auditorium)
Facilitated by Prof Nicholas Morrell this session consists of a series of presentations (basic, translational or clinical) on a particular clinical condition given by members of a single unit, the aim being to give an insight into the vision and organisation of a successful clinical research department.

Michael Davies Early Career Award 2017 – BCS
The Michael Davies Early Career Award (MDECA) winner for 2017, Dr James Ware will give a presentation from 15:15 in Charter 2/3 on Monday.

Young Investigators Prize competition
The final of the BCS Young Investigators Prize competition (YIP) will be judged on Tuesday 6 June from 12:15 in Charter 2/3.

‘MDT-Live’ sessions
(Monday Exchange Hall, Tuesday Exchange Hall, Wednesday Auditorium)
Back by popular demand, these lively sessions with panels comprised of members of multi-disciplinary teams, feature discussion of clinical cases and cover endocarditis, pregnancy and arrhythmias.

Extreme diving in humans and other animals
(Tuesday 13:45 – 15:15, Auditorium)
Including ‘Diving in Crocodiles: Cardiovascular Intricacies and Tricks’ Prof Craig Franklin.

South Georgia, Shackleton and the Heart, Mr Martin Thomas and Dr Janice Till
Adventures in the Polar Extremes, Ms Sue Flood, renowned polar photographer
(Tuesday 16:00 – 17:30, Auditorium)

Life Long Learning
(Tuesday, Exchange 11)
A core component of the Education for Revalidation (E4R) track of this year’s conference, Prof Simon Ray and a team of renowned moderators return with 2 sessions specifically designed to review recent developments across the spectrum of general cardiology to support revalidation. Each session will last for three hours and will consist of 30 clinical scenarios with accompanying multiple choice questions which the audience answer using response pads. The questions in the morning session (09:00 – 12:00) are repeated in the afternoon session (13:30 – 16:30).

Annual Dinner
(Tuesday 19:30 – midnight, Exchange Hall)
Now a highlight of the Conference, this year’s dinner will be bigger than ever, with a champagne reception, 3-course dinner, a fundraising raffle, and music and dancing with guest DJ Namina. The BHF Alliance Awards will be presented, as will the BCS Medals. Tickets are booked in advance, but ask at Registration for last-minute availability.

BCS Quiz
(Wednesday 13:45 – 15:15, Auditorium)
Quizmaster Dr Rod Stables will host a ‘showdown’ between teams from BCIS, BHRS and BSCI who will be battling it out for the coveted BCS trophy.

Top 10 Trials
(Wednesday 15:45 – 17:00, Auditorium)
The ever popular round-up of the top ten trials covering: artwork, electrics, drugs, plumbing, and pumps.
Conference

Sponsored Symposia

Monday 5 June (08:30 – 09:30, Charter 4)
‘Athletes who push their bodies to the extreme: What can we learn to improve interventions in heart failure?’ (This is a Vifor Pharma organised and funded symposium).

Monday 5 June (12:30 – 13:30, Charter 4)
‘Extreme challenges in heart failure: nephrology vs. cardiology – who does it best?’ (This is a Vifor Pharma organised and funded symposium).

Monday 5 June (18:00 – 19:00, Charter 4)
‘PCSK9 inhibition: LDL-C Lowering and Beyond – What the Cardiologist needs to know’. (This is an Amgen organised and funded symposium).

Tuesday 6 June (18:00 – 19:00, Exchange 11)
PCSK9 Inhibitors in UK Clinical Practice (This is a Sanofi organised and funded symposium).

Other Meetings

Wednesday 7 June (12:30 – 13:30, Exchange Hall)
BCS Annual General Meeting, for BCS Members Only.

Webcasts

Webcasts for many of the sessions in the main Programme will be available following the conference. We thank the following webcasters for their hard work in bringing these to you: NAMES.

Drs James Wardley, Smriti Saraf, Abhishek Joshi, Seth Dockrill, Saud Khawaja, Mahvesh Javaid, Anil Joseph, Jamie Gulrays

Education Hall

The Education Hall is open from 09:30 on Monday 5 June and features: a multiplicity of hands-on, interactive education and training opportunities; over 100 concise ‘Hot Topics’ sessions; plus a fantastic range of industry, charity and education exhibitors. Please see page 64-65 for floor plan of the Education Hall and Exhibitors, or just come and explore.

Exhibitors

The BCS thank all of our Exhibitors for their support and encourage all delegates to visit their stands.

BCS.com stand

Please visit the BCS.com stand for information on BCS membership and our educational courses running throughout the year.

You can also view a sample of the Arthur Hollman Historical Collection at the BCS Archives stand. Meet the BCS Archivist on Monday 5 June during the breaks.

Hot Topics

Back by popular demand are the ‘Hot Topics’. These concise 15 minute presentations of key clinical messages – by experts in the field – cover over 100 topics. This year there are 4 zones, each representing a broad area of cardiology with special, integrated BHF Hot Topics:

- Zone 1: intervention, coronary and valve disease
- Zone 2: arrhythmias, pacing, syncope, ICC
- Zone 3: basic science, heart failure, imaging
- Zone 4: trainees, ACHD, imaging, prevention

Please see pages 20-21, 34-35, 48-49 for the full breakdown of the Hot Topics and timings.

The hot topics sessions will be moderated by the following: Dr Anil Joseph, Dr Ben Wiles, Dr Eylem Levelt, Dr Abhishek Joshi, Dr Hannah McConkey, Dr Claire Martin, Dr Amardeep Dastidar, Dr Kully Sandhu, Dr Julian Ormerod, Dr Will Moody, and Dr Reza Aghamohammadzadeh. Dr Sanjay Sinha

Posters

Posters will be displayed in the poster area towards the back of the Education Hall. Meet discussants here to review posters at the times indicated on the Programme-at-a-glance or browse at other times.
Hands-on, Interactive Training

In response to demand and feedback, 2017 sees the continued development of numerous opportunities for high quality, interactive training. Most pre-arranged sessions will last 60 minutes and will consist of a one-to-one tutorial (or two-to-one) with an experienced trainer.

The training will follow key objectives that will track to the JRCPTB 2010 Specialty curriculum for cardiology, but sessions will also be tailored to the experience of the individual and suitable for all trainees as well as existing consultants keen to explore new technological innovations, in depth.

Imaging Village

The Imaging Village is back in 2017 and has the following interactive work stations:

- How to perform a CMR scan (live CMR sessions on volunteers in a mobile MR system in the Education Hall)
- How to perform a transthoracic Echo (live Echo sessions on volunteers in the Imaging Village)
- CMR post-processing
- Echo post-processing
- Cardiac CT post-processing
- Nuclear post-processing

Live CMR scanning: This 90 minute session will cover the full range of skills required to perform a basic CMR scan at 1.5T, including safety screening indications, patient preparation and set-up. The scan itself will be non-contrast (and non-pharmacological stress) for safety reasons. However, delegates will learn how to plan and scan using simple MR pulses sequences which will include black blood (T1/T2w), cine imaging and phase contrast velocity mapping. The session will include training from a highly experienced CMR applications specialist and an experienced MR clinician.

The BCS is grateful to Alliance Medical, Circle CVI, Medis, Philips, Siemens, TeraRecon, Tomtec, and GE Healthcare for providing the imaging equipment and technical support.

Special thanks to Dr Guy Lloyd who has led and coordinated this exciting initiative.

We would also acknowledge and thank the following who have provided expert input into arranging and coordinating the Imaging programme: Dr Laura Dobson, Dr Matthias Schmitt, Dr Rebecca Schofield, and Dr James Shambrook.

Simulator Training

Once again we are excited to offer hands-on training opportunities on simulator stations across a range of procedures and techniques. The experienced Faculty look forward to delivering the same high standard of teaching achieved in previous years. As before, the learning objectives and teaching on each station are tailored towards the 2010 JRCPTB Cardiology Curriculum, but with the flexibility to benefit a wide range of participant experience and requirements.

In 2017 we will have simulator training sessions in:

- Diagnostic angiography, radial and femoral (including radial access)
- Percutaneous coronary intervention (simple and complex)
- Electrophysiology (trans-septal puncture and coronary sinus lead placement)
- Implantation of Subcutaneous Loop Recorders
- Pacing (lead placement and programming)
- Trans-oesophageal echocardiography (with pathologies)
- Percardiocentesis

The BCS is grateful to Barts Health NHS Trust Education Academy, Boston Scientific, Cordis, Heartworks, Medtronic, and Mentice for providing the simulators and technical support.

Special thanks to Dr Antony French who has led and coordinated this exciting initiative.

We would also acknowledge and thank the following Leads who have provided expert input into arranging and coordinating the Simulator programme: Dr Mike Sosin and Dr James Wilkinson.
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<thead>
<tr>
<th>Time</th>
<th>Auditorium</th>
<th>Exchange Hall</th>
<th>Charter 2/3</th>
<th>Charter 4</th>
<th>Charter 1</th>
<th>Exchange 8,9,10</th>
<th>Central 3/4</th>
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<tr>
<td>08:00 - 09:00</td>
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<td>09:00 - 10:00</td>
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<td>1 Training Day</td>
<td>Endocarditis MDT-Live</td>
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<tr>
<td>10:00 - 10:45</td>
<td>2 Opening Ceremony</td>
<td>Welcome</td>
<td>Dr Sarah Clarke</td>
<td>Will the right (cardiovascular) stuff get humans to Mars: Reflections of a space cardiologist Dr Benjamin Levine</td>
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<tr>
<td>10:45 - 12:15</td>
<td>3 BHF Bench-to-Bedside</td>
<td>Extreme phenotypes in Pulmonary Arterial Hypertension: from genes to novel therapies</td>
<td>4 Innovation in the NHS: from past to future</td>
<td>5 Basic Science</td>
<td>Understanding the cross-talk between adipose tissue and the cardiovascular system: Translating basic science to practice</td>
<td>6 Innovations in Clinical Cardiology</td>
<td>Innovations in cardio-oncology</td>
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<tr>
<td>12:15 - 13:45</td>
<td>Lunch</td>
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<tr>
<td>13:45 - 15:15</td>
<td>9 Affiliated Group – BSH</td>
<td>Landmark Trials in Heart Failure – 30 years on from CONSENSUS</td>
<td>10 Training Day</td>
<td>Joint Royal College of Physicians/ British Cardiovascular Society Session</td>
<td>11 Basic Science</td>
<td>Cardiac and arterial ageing</td>
<td>12 Affiliated Group – BHRS</td>
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<tr>
<td>15:15 - 16:00</td>
<td>Break</td>
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<td>16:00 - 17:00</td>
<td>17 E4R</td>
<td>Management of ACS in the troponin era</td>
<td>18 Training Day</td>
<td>Cardiology in the ITU</td>
<td>19 Basic Science</td>
<td>BSCR/BAS Poster Session 1 in Poster Area, Education Hall</td>
<td>20 Resuscitation to Recovery: How can we improve outcomes?</td>
</tr>
<tr>
<td>17:00 - 18:00</td>
<td>23 Paul Wood Lecture</td>
<td>Personalised medicine and computational cardiology – enhancing cardiovascular care and health in the next era</td>
<td>Dr Harlan Krumholz</td>
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<tr>
<td>18:00 - 19:00</td>
<td>24 Basic Science</td>
<td>The John French Lecture</td>
<td>PCSK9 inhibition: LDL-C Lowering and Beyond (sponsored by Amgen)</td>
<td>25 ACC GB and Ireland Chapter open meeting</td>
<td>26 ACC GB and Ireland Chapter open meeting</td>
<td>27 BHF Drinks Reception &amp; Update (lobby outside Charter 1)</td>
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The following key enables individual tracks to be identified throughout the Programme:

- Basic Science (BAS/BSCR)
- Spring Meeting
- BCS Highlight Sessions
- CCP (UK) Day
- E4R
- BHF Sessions
- Clinical Physiologists / Healthcare Scientists
- Imaging Track
- Innovations in Clinical Cardiology Track
- Training Day
### Monday 5 June

**Location: Education Hall**

#### All sessions in Education Hall

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Topic/Category</th>
<th>Activity</th>
<th>Speaker</th>
</tr>
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<tbody>
<tr>
<td>10:00</td>
<td>Education Hall Opens</td>
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</tr>
<tr>
<td>12:30</td>
<td>During Lunch</td>
<td>ZONE 1 (INTERVENTION, CORONARY AND VALVE DISEASE)</td>
<td>Who is not suitable for TAVI in 2017?</td>
<td>Dr Douglas Fraser</td>
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<tr>
<td>12:45</td>
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<td>Indications for ablation of persistent AF</td>
<td>Dr David Fox</td>
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<tr>
<td>13:00</td>
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<td>ZONE 2 (ARRHYTHMIAS, PACING, SYNCOPE, ICC)</td>
<td>Complications of TAVI and how to minimise them</td>
<td>Dr Ganesh Manoharan</td>
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<tr>
<td>13:15</td>
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<td>Optimum procedure for ablation of long-lasting persistent AF</td>
<td>Dr Mark Earley</td>
</tr>
<tr>
<td>13:00</td>
<td>During Lunch</td>
<td>ZONE 3 (BASIC SCIENCE, HEART FAILURE, IMAGING)</td>
<td>BHF Hot Topic 1. BHF Funding for Translational Research</td>
<td>Miss Victoria Taylor</td>
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<tr>
<td>13:15</td>
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<td>Is AF ablation a prognostically beneficial procedure?</td>
<td>Dr Julian Jarman</td>
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<tr>
<td>13:15</td>
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<td>ZONE 4 (TRAINNEES, ACHD, IMAGING, PREVENTION)</td>
<td>BHF Hot Topic 2. Communicating your research in the media</td>
<td>Ms Jennifer Mitchell</td>
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<tr>
<td>13:15</td>
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<td>Upstream therapy to improve ablation outcomes</td>
<td>Dr Matthew James Wright</td>
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<tr>
<td>14:00</td>
<td>During Early Afternoon Sessions</td>
<td>-</td>
<td>Public reporting of PCI outcomes</td>
<td>Dr Mark de Belder</td>
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<tr>
<td>14:15</td>
<td></td>
<td></td>
<td>Transeptal puncture: how I do it</td>
<td>Dr Scott Gall</td>
</tr>
<tr>
<td>14:30</td>
<td></td>
<td>ZONE 1 (INTERVENTION, CORONARY AND VALVE DISEASE)</td>
<td>Bioresorbable stents: ready for prime time?</td>
<td>Dr Stephen Hoole</td>
</tr>
<tr>
<td>14:30</td>
<td></td>
<td></td>
<td>How to programme a pacemaker: top tips</td>
<td>Mr Stuart Allen</td>
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<tr>
<td>14:30</td>
<td></td>
<td>ZONE 2 (ARRHYTHMIAS, PACING, SYNCOPE, ICC)</td>
<td>CT-FFR: one stop shop for investigation of suspected CAD?</td>
<td>Dr Francesca Pugliese</td>
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<tr>
<td>14:30</td>
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<td></td>
<td>How to manage device infection</td>
<td>Dr Fozia Ahmed</td>
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<tr>
<td>14:45</td>
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<td></td>
<td>Top tips for dealing with chronic total occlusions</td>
<td>Dr Elliot Smith</td>
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<tr>
<td>14:45</td>
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<td></td>
<td>Treatment options for syncope</td>
<td>Dr Amir Zaidi</td>
</tr>
<tr>
<td>15:25</td>
<td>During Tea Break</td>
<td>-</td>
<td>Practical tips on vascular access for coronary angiography</td>
<td>Dr Cara Hendry</td>
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<tr>
<td>15:40</td>
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<td></td>
<td>Acute management of broad complex tachycardia</td>
<td>Dr Andrew Thorley</td>
</tr>
<tr>
<td>15:40</td>
<td></td>
<td>ZONE 3 (BASIC SCIENCE, HEART FAILURE, IMAGING)</td>
<td>BHF Hot Topic 3. BHF Funding for Clinical Research</td>
<td>Dr Shannon Amolls</td>
</tr>
<tr>
<td>16:00</td>
<td></td>
<td></td>
<td>Should coronary disease be sought in every patient with LV dysfunction?</td>
<td>Prof Andrew Clark</td>
</tr>
<tr>
<td>15:40</td>
<td></td>
<td>ZONE 4 (TRAINNEES, ACHD, IMAGING, PREVENTION)</td>
<td>Complete revascularisation for the STEMI patient</td>
<td>Dr Roshan Weerakody</td>
</tr>
<tr>
<td>15:55</td>
<td></td>
<td></td>
<td>Remote monitoring of implantable devices in the management of heart failure</td>
<td>Dr Parminder Chaggar</td>
</tr>
<tr>
<td>16:00</td>
<td></td>
<td></td>
<td>A career in ACHD</td>
<td>Dr Lucy Hudsmith</td>
</tr>
</tbody>
</table>

2017 Annual Conference and Exhibition
### Monday

**Main programme details**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 – 10:00</td>
<td>Exchange Hall</td>
<td><strong>1 Training Day</strong>&lt;br&gt;Endocarditis MDT-Live&lt;br&gt;Moderator: Dr Nicola Edwards&lt;br&gt;Case presentations: Names&lt;br&gt;Panelists: Dr Simon Woldman, Dr Mark Belham, Dr Marc Dweck, Dr Jonathan Sandoe, Mr Ragheb Hasan, Dr Bernard Prendergast&lt;br&gt;Panel discussion&lt;br&gt;Discussion of evidence/literature&lt;br&gt;Panel/audience interaction&lt;br&gt;Case conclusion</td>
</tr>
<tr>
<td>10:00 – 10:45</td>
<td>Auditorium</td>
<td><strong>2 Opening Ceremony and Keynote Lecture</strong>&lt;br&gt;Welcome to the BCS Annual Conference 2017&lt;br&gt;<em>Dr Sarah Clarke</em>&lt;br&gt;Will the right (cardiovascular) stuff get humans to Mars: Reflections of a space cardiologist&lt;br&gt;<em>Dr Benjamin Levine</em></td>
</tr>
<tr>
<td>10:45 – 12:15</td>
<td>Auditorium</td>
<td><strong>3 Extreme phenotypes in Pulmonary Arterial Hypertension: from genes to novel therapies</strong>&lt;br&gt;Chairs: Prof Sir Nilesh Samani, Prof Clifford Garratt&lt;br&gt;Facilitator: <em>Prof Nicholas Morrell</em>&lt;br&gt;Human genetics studies in idiopathic and heritable PAH – both historical and the latest findings from our whole genome sequencing study in 1200 patients from UK and Europe&lt;br&gt;<em>Dr Stefan Graf</em>&lt;br&gt;Reverse translation of genetic findings into preclinical rodent models and proof-of-concept for therapeutic targeting of the major genetic pathways&lt;br&gt;<em>Dr Paul Upton</em>&lt;br&gt;Disease modelling of genetic PAH in patient-derived iPSCs&lt;br&gt;<em>Dr Amer Rana</em>&lt;br&gt;Experimental Medicine studies of new therapies in PAH&lt;br&gt;<em>Dr Mark Toshner</em></td>
</tr>
<tr>
<td>10:45 – 12:15</td>
<td>Exchange Hall</td>
<td><strong>4 Innovation in the NHS: from past to future</strong>&lt;br&gt;Chairs: Dr Sarah Clarke, Prof Martin Cowie&lt;br&gt;Randomised trials: success and challenges&lt;br&gt;<em>Prof John Cleland</em>&lt;br&gt;Digital health: hope or hype?&lt;br&gt;<em>Prof Martin Cowie</em>&lt;br&gt;Innovation in the NHS 2017: why we need entrepreneurs&lt;br&gt;<em>Prof Tony Young</em>&lt;br&gt;18 years of valuing innovation at NICE&lt;br&gt;<em>Sir Andrew Dillon</em></td>
</tr>
<tr>
<td>10:45 – 11:45</td>
<td>Charter 2/3</td>
<td><strong>5 Understanding the cross-talk between adipose tissue and the cardiovascular system: Translating basic science to clinical practice</strong>&lt;br&gt;Chairs: Prof Charalambos Antoniades, Dr Pasquale Maffia&lt;br&gt;T-cells in adipose tissue as regulators of atherogenesis&lt;br&gt;<em>Prof Tomasz Guzik</em>&lt;br&gt;Perivascular fat and vascular contractility&lt;br&gt;<em>Prof Anthony Heagerty</em>&lt;br&gt;Characterising liver macrophages: Implication for cardiometabolic risk&lt;br&gt;<em>Dr Myriam Aouadi</em>&lt;br&gt;Epicardial adipose tissue-derived fibrokines: New therapeutic targets in atrial fibrillation?&lt;br&gt;<em>Prof Stephane N. Hatem</em></td>
</tr>
<tr>
<td>10:45 – 11:45</td>
<td>Charter 4</td>
<td><strong>6 Innovations in Cardio-oncology</strong>&lt;br&gt;Chairs: Dr Alexander Lyon, Dr John Paul Carpenter&lt;br/Cardiovascular toxicity of novel targeted molecular cancer drugs&lt;br&gt;<em>Dr Stuart Rosen</em>&lt;br/New approaches to prevent anthracycline-induced cardiotoxicity&lt;br&gt;<em>Dr Chris Plummer</em>&lt;br/How to prevent and manage radiation-induced coronary disease&lt;br&gt;<em>Dr Alison Ranger</em></td>
</tr>
</tbody>
</table>
Monday

Main programme details

11:45 – 12:15 Abstracts in Heart Failure (1-20)
Poster Area in Education Hall
Abstract Numbers: 1-3
Prof John McMurray, Dr Andrew Ludman
Abstract Numbers: 4-6
Dr Colin Cunnington, Dr Dominic Kelly
Abstract Numbers: 7-9
Prof John Cleland, Dr Paul David Callan
Abstract Numbers: 10-12
Dr Stuart Rosen, Dr Leisa Freeman
Abstract Numbers: 13-14
Prof Henry Dargie, Dr Kevin Fox
Abstract Numbers: 15-17
Prof Karl Swedberg, Dr Lisa Anderson
Abstract Numbers: 18-20
Dr Peter Cowburn, Dr Guy MacGowan

10:45 – 12:15 BCS/ACC

7 Joint BCS/ACC Session: Acute cardiovascular care – quality solutions
Chairs: Dr Sarah Clarke, Dr Mary Norine Walsh
Treatment of acute heart failure
Dr Mary Norine Walsh
PCI in acute MI: complete revascularisation or culprit vessel only
Dr Michael Valentine
Acute management of atrial fibrillation
Prof Richard Schilling
Acute management of the sick Fontan patient
Dr Kate English

10:45 – 12:15 Exchange 8,9,10

8 Read with the Experts
Lead Chair: Dr Mark Westwood
Co-Chairs: Dr Navroz Masani, Dr Kshama Wechalekar, Dr Giles Roditi
Case presenters: Dr Tim Fairbairn, Dr Christopher Steadman, Dr Laura Dobson, Dr Manish Motwani, Dr Matthew Balerdi

10:45 – 12:15 Exchange Hall

4 Innovation in the NHS: from past to future
Chairs: Dr Sarah Clarke, Prof Martin Cowie
Randomised trials: success and challenges
Prof John Cleland
Digital health: hope or hype?
Prof Martin Cowie
Innovation in the NHS 2017: why we need entrepreneurs
Prof Tony Young
18 years of valuing innovation at NICE
Sir Andrew Dillon

13:45 – 15:15 Auditorium

9 Landmark Trials in Heart Failure – 30 years on from CONSENSUS
Chairs: Prof Iain Squire, Dr Paul Kalra
RAAS inhibition (to include ACEi/ARB/MRA)
Prof Karl Swedberg
Beta-blockers
Prof Henry Dargie
Devices
Prof John Cleland
ARNIs and future directions
Prof John McMurray
### Monday 5 June

**Main programme details**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Chairs</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:45 – 15:15</td>
<td>Exchange Hall</td>
<td>TRAINING DAY</td>
<td></td>
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<tr>
<td>10</td>
<td>Joint Royal College of Physicians / British Cardiovascular Society Session</td>
<td>Chairs: Prof Jane Dacre, Prof Russell Smith</td>
<td>Future Hospital – Principles to Practice Caring for Medical Patients</td>
<td>Dr Frank Joseph, Dr Gerrard Phillips, Dr Michael Stewart, Prof Jane Dacre, Prof Russell Smith</td>
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<td>How can the Chief Registrar project improve cardiology care and training?</td>
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<tr>
<td>13:45 – 15:15</td>
<td>Charter 1</td>
<td>AFFILIATED GROUP – BCIS</td>
<td></td>
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<tr>
<td>13</td>
<td>Extreme STEMI management</td>
<td>Chairs: Prof Rod Stables, Prof Simon Redwood</td>
<td>Vented, out-of-hospital arrest, cardiogenic shock</td>
<td>Dr David Sarkar, Prof Philip MacCarthy, Prof John Camm, Dr Mark Gunning</td>
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<tr>
<td>14</td>
<td>ACC GB and Ireland Chapter: Focus on Hypertension</td>
<td>Chairs: Dr Sarah Clarke, Dr Albert McNeill</td>
<td>High blood pressure in the British Isles and beyond: what cardiologists need to know</td>
<td>Prof Anthony Heagerty, Prof John Cockcroft, Prof Martin O’Donnell, Prof Adrian Brady</td>
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<td>New and emerging treatments for high blood pressure. Sheep in wolves’ clothing?</td>
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<td>Salt and the heart – less is less, or less is more?</td>
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<td></td>
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<td>Blood pressure lowering and other controversies: less is less or less is more?</td>
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<tr>
<td>15</td>
<td>Mancxit? Health and social care devolution in Manchester</td>
<td>Chairs: Prof Huon Gray, Sir Mike Deegan</td>
<td>Improving Cardiovascular Care in the context of GM Devolution</td>
<td>Dr Richard Preece, Prof Ian Greer, Prof Huon Gray</td>
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<td>Healthcare innovation in a devolved health economy</td>
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</tbody>
</table>
Monday

Main programme details

Re-organisation of stroke services in Manchester and London
Prof Ruth Boaden
A Primary Care perspective of DevoManc
Dr Ivan J. Benett
Panel discussion

15:15 – 15:35 Charter 2/3
16 Michael Davies Early Career Award
Chair: Prof Rod Stables
Dr James Ware

16:00 – 17:00 Auditorium
17 Management of ACS in the troponin era
Chairs: Dr Robert Henderson, Dr Farzin Fath-Ordoubadi
Does risk stratification still matter?
Prof Chris Gale
Can we do better with antithrombotic therapy?
Prof Robert Storey
Should the Universal Definition influence therapeutic strategy?
Prof Nicholas Mills

16:00 – 17:00 Exchange Hall
18 Cardiology in the ITU
Chairs: Dr Sara Thorne, Dr Christopher Burrell
Pharmacological support of the ITU patient
Dr Andrew Curry
How to manage rhythm disturbances on ITU
Dr Howard Marshall
Is this ITU patient having an ACS and how will I manage them?
Dr James Wilkinson

16:00 – 17:00 Poster Area, Education Hall
19 BSCR/BAS Poster Session 1
Abstracts: Basic Science (139-186)

16:00 – 17:00 Charter 4
20 Resuscitation to Recovery: How can we improve outcomes?
Chairs: Prof Huon Gray, Dr Michael Valentine
The chain of survival from cardiac arrest; how well do we perform in England?
Prof Gavin Perkins
Role of early angiography and revascularisation
Prof Simon Redwood
Resuscitation to Recovery - Clinical Consensus document
Dr Mark de Belder
Q&A

16:00 – 17:00 Charter 1
21 Vexing valves and their transcutaneous treatment
Chairs: Prof James Cotton, Dr Daniel Blackman
Can you see it yet? TAVI valve-in-valve in the stentless prosthesis
Dr Stephen Brecker
No-one’s cup of tea? How best to deal with tricuspid regurgitation
Prof Olaf Wendler
Fitting the jigsaw pieces: TAVI in the presence of mitral valve disease
Dr Bernard Prendergast

16:00 – 17:00 Exchange 8,9,10
22 Clinical aspects of pulmonary hypertension
Chairs: Dr Paul Clift, Prof John Deanfield
New drugs on the horizon for primary pulmonary hypertension
Dr Simon Gibbs
New interventions to treat chronic thromboembolic pulmonary hypertension
Mr David Jenkins
Pulmonary Hypertension secondary to ACHD
Prof Michael Gatzoulis
Monday

Main programme details

17:00 – 18:00  Auditorium
23  Paul Wood Lecture
   Introduced by
   Dr Iain Simpson
   Personalised medicine and computational cardiology –
   enhancing cardiovascular care and health in the next era
   Dr Harlan Krumholz
   Thanked by
   Dr Sarah Clarke

18:00 – 19:00  Central 3/4
24  ACC GB and Ireland Chapter open meeting
25  Chair: Dr Sarah Clarke

18:00 – 19:00  Charter 2/3  BASIC SCIENCE
25  The John French Lecture
24  Chair: Prof Sarah George
   Apoptosis, necrosis, atherosclerosis and IL-1 – novel
   pathways of vascular inflammation
   Dr Murray Clarke

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BCS COURSES 2017-18

Book online at www.bcs.com/education
Email courses@bcs.com for further information.

A Career in Cardiology
22 September 2017
A crucial toolkit for success. This one day course is a must for all
research fellows, junior and middle-grade doctors, and all those aspiring
to become recognised cardiology trainees. Aims to improve delegates’
chances of securing a cardiology training post.

National Training Day
26 September 2017
Covering topics from the current cardiology curriculum, the topics and
sessions for National Training Days are carefully tailored to address gaps
in the Training Programme, or provide additional detail on areas trainees
have identified as being of concern.

A Year in Cardiology
15 December 2017
This course provides a succinct review of the year’s key developments
and hot topics, with particular emphasis on clinical practice and a round-up
of key developments in the sub-specialities. This symposium is a must
for consultants and trainees wishing to keep abreast of major advances
in Cardiology.

BCS & Mayo Clinic – Cardiology Review Course
5 – 9 March 2018
Matched to the Cardiology Curriculum, this five day course gives a
comprehensive overview of cardiovascular medicine. Suitable for
cardiology trainees preparing for exams, e.g. the European Exam in
General Cardiology (EEGC), specialist doctors and consultants wishing
to update their knowledge.
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>AU</td>
<td>26 E4R ECG Interpretation with Simon Fynn and Edward Rowland</td>
</tr>
<tr>
<td>08:30</td>
<td>EX</td>
<td>27 BCS Combat Cardiology</td>
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<tr>
<td>08:30</td>
<td>CH</td>
<td>28 Basic Science Leukocytes in cardiovascular inflammation: Resident and infiltrating cells</td>
</tr>
<tr>
<td>08:30</td>
<td>CH</td>
<td>29 Innovations in Clinical Cardiology Innovations in coronary physiology and intervention 08:30 – 09:30 Abstracts 21-31 (interventional cardiology) in Poster Area, Education Hall 09:30 – 10:00</td>
</tr>
<tr>
<td>10:00</td>
<td>EX</td>
<td>30 Affiliated Group – BCCA Aortopathies</td>
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<tr>
<td>10:00</td>
<td>EX</td>
<td>31 Clinical Physiologists/Healthcare Scientists Session 1: Imaging</td>
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<tr>
<td>10:45</td>
<td>EX</td>
<td>32 BCS revalidation Lifelong learning programme (09.00 – 12.00)</td>
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<tr>
<td>10:45</td>
<td>EX</td>
<td>33 BCS Highlight Session Extreme flying and the cardiovascular system</td>
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<tr>
<td>10:45</td>
<td>EX</td>
<td>34 MDT-Live Pregnancy and the Heart</td>
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<tr>
<td>10:45</td>
<td>EX</td>
<td>35 BCS/BSCR/BAS Highlight Session Will stem cell research change clinical practice?</td>
</tr>
<tr>
<td>10:45</td>
<td>EX</td>
<td>36 Innovations in Clinical Cardiology Innovations in assessing risk of sudden death 10:45 – 11:45 Abstracts 32-33 (cardiac rhythm management) in Poster Area, Education Hall 11:45 – 12:15</td>
</tr>
<tr>
<td>12:15</td>
<td>AU</td>
<td>37 Cardiology in Primary Care Session 1: Difficult decisions in the community</td>
</tr>
<tr>
<td>12:15</td>
<td>AU</td>
<td>38 Clinical Physiologists/Healthcare Scientists Session 2: Abstract presentation session</td>
</tr>
<tr>
<td>15:15</td>
<td>AU</td>
<td>40 BCS Highlight Session Extreme diving in humans and other animals</td>
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<tr>
<td>15:15</td>
<td>AU</td>
<td>41 Imaging Controversies in the investigation of stable chest pain</td>
</tr>
<tr>
<td>15:15</td>
<td>AU</td>
<td>42 Basic Science BSCR/BAS Poster Session 2 in Poster Area, Education Hall</td>
</tr>
<tr>
<td>16:00</td>
<td>AU</td>
<td>43 Cardiology in Primary Care Session 2: Which patients should I refer? Which patients should I admit?</td>
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<tr>
<td>16:00</td>
<td>AU</td>
<td>44 Clinical Physiologists/Healthcare Scientists Session 3: Cardiac rhythm management</td>
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<tr>
<td>16:00</td>
<td>AU</td>
<td>45 BCS revalidation Lifelong learning programme (13.30 – 16.30)</td>
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<tr>
<td>18:00</td>
<td>AU</td>
<td>46 BCS Highlight Session Shackleton’s Heart, and At the Polar Extremes with Sue Flood</td>
</tr>
<tr>
<td>18:00</td>
<td>AU</td>
<td>47 BCS/ESC Joint BCS/ESC Session: Recent guidelines from the ESC – heart failure and prevention of cardiovascular disease</td>
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<tr>
<td>18:00</td>
<td>AU</td>
<td>48 Basic Science Diabetes and cardiovascular disease</td>
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<tr>
<td>18:00</td>
<td>AU</td>
<td>49 Cardiology in Primary Care Session 3: What’s New?</td>
</tr>
<tr>
<td>18:00</td>
<td>AU</td>
<td>50 Clinical Physiologists/Healthcare Scientists Session 4: Workforce and Professional Practice</td>
</tr>
<tr>
<td>18:00</td>
<td>AU</td>
<td>51 Strickland Goodall Lecture Exploring the extremes of myocardial injury Prof Michael Marber</td>
</tr>
<tr>
<td>19:30</td>
<td>AU</td>
<td>Annual Dinner in Exchange Hall</td>
</tr>
</tbody>
</table>

The following key enables individual tracks to be identified throughout the Programme:
- Basic Science (BAS/BSCP) Spring Meeting
- BHF Sessions
- Clinical Physiologists / Healthcare Scientists
- Imaging Track
- Innovations in Clinical Cardiology Track
- Training Day
- E4R
Tuesday 6 June

Programme at a glance – Hot Topics in the Education Hall

All sessions in Education Hall

<table>
<thead>
<tr>
<th>LOCATION: TOPIC/ CATEGORIES:</th>
<th>ZONE 1 (INTERVENTION, CORONARY AND VALVE DISEASE)</th>
<th>ZONE 2 (ARRHYTHMIAS, PACING, SYNCOPE, ICC)</th>
<th>ZONE 3 (BASIC SCIENCE, HEART FAILURE, IMAGING)</th>
<th>ZONE 4 (TRAINEES, ACHD, IMAGING, PREVENTION)</th>
</tr>
</thead>
<tbody>
<tr>
<td>During Coffee Break</td>
<td>During Coffee Break</td>
<td>During Morning Sessions</td>
<td>During Afternoon Sessions</td>
<td>During Tea Break</td>
</tr>
<tr>
<td>10:10 – 10:25</td>
<td>BHF Hot Topic 4. Addressing unwarranted variation in CVD early diagnosis and management Mrs Lorraine Oldridge</td>
<td>Improving non-response in CRT Dr Manav Sohal</td>
<td>Diagnoses not to miss as a cause of “heart failure” Dr Ashish Shah</td>
<td>A Cardiology Fellowship in the UK/Europe Dr Neil Ruparelia</td>
</tr>
<tr>
<td>10:25 – 10:40</td>
<td>War on troponitis: how to beat the plague Prof Richard Body</td>
<td>New techniques for LV pacing Dr Simon James</td>
<td>What to do about acute heart failure Prof Andrew Clark</td>
<td>A Cardiology Fellowship in Australia/NZ Dr Andrew Lucking</td>
</tr>
<tr>
<td>11:00 – 11:15</td>
<td>Early management of patients surviving out-of-hospital cardiac arrest Dr Ian Webb</td>
<td>Should all patients with WPW-pattern ECGs have ablation? Dr Gwilym Morris</td>
<td>The role of the Ambulatory Heart Failure Clinic Dr Dargoi Satchi</td>
<td></td>
</tr>
<tr>
<td>11:15 – 11:30</td>
<td>Percutaneous mechanical support in the cath lab; which patient, which device, when? Dr Divaka Perera</td>
<td>VT ablation in normal hearts; when, why and how? Dr Wyn Davies</td>
<td>Managing multimorbidity in the heart failure patient Dr Colin Cunnington</td>
<td></td>
</tr>
<tr>
<td>11:30 – 11:45</td>
<td>Takotsubo syndrome Dr Alexander Lyon</td>
<td>VT ablation in abnormal hearts; when, why and how? Dr Jaswinder S Gill</td>
<td>Increasing uptake of new heart failure drugs Dr Simon Williams</td>
<td></td>
</tr>
<tr>
<td>11:45 – 12:00</td>
<td>Spontaneous coronary artery dissection Dr Ablehale Al-Hussaini</td>
<td>Ventricular ectopic burden: how much is too much? Dr Sahrkaw Muhyaldeen</td>
<td>Diagnosis of myocarditis Dr Stephen Pettit</td>
<td></td>
</tr>
<tr>
<td>14:00 – 14:15</td>
<td>Thrombus aspiration, GP2b3a inhibitors for STEMI; do they still have a role? Dr Ravi Singh</td>
<td>Early repolarisation syndrome and its management Dr Elijah Behr</td>
<td>Rehabilitation for heart failure Dr Aynsley Cowie</td>
<td></td>
</tr>
<tr>
<td>14:15 – 14:30</td>
<td>Optimal use of IVUS in coronary intervention; an update Dr Neal Uren</td>
<td>Differential diagnosis of Brugada ECG pattern Dr Hanharan Raju</td>
<td>Metacognitive therapy and cardiac rehabilitation Ms Rebecca Anderson</td>
<td></td>
</tr>
<tr>
<td>14:30 – 14:45</td>
<td>Antiplatelet therapy after PCI in patients who are anticoagulated Prof Tony Gershlick</td>
<td>Indications for genetic testing in patients with familial sudden cardiac death syndromes Dr James Ware</td>
<td>National standards and certification for cardiac rehabilitation Prof Patrick Doherty</td>
<td></td>
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<tr>
<td>14:45 – 15:00</td>
<td>Is incomplete revascularisation a predictor of poor outcome? Dr Vasim Farooq</td>
<td>Drug treatment for channelopathies Dr Arthur Yue</td>
<td>Palliative care in heart failure Dr Stephen Oxbery</td>
<td></td>
</tr>
<tr>
<td>15:25 – 15:40</td>
<td>BHF Hot Topic 5. Identifying the thousands with undetected inherited cardiac conditions – enhancing cascade genetic testing (FW/HCM) Ms Joanne Whitmore &amp; Mr Chris Amnus</td>
<td>Patient selection for subcutaneous ICD Dr Ravi Pathmanathan</td>
<td>ICDs and dilated cardiomyopathy in the light of DANISH Dr Derek Connelly</td>
<td>A Cardiology Fellowship in the United States Dr Jonathan Hill</td>
</tr>
<tr>
<td>15:40 – 15:55</td>
<td>Dual antiplatelet therapy following PCI; short, long or customised? Prof Robert Storey</td>
<td>The best techniques for SVT diagnosis in the EP lab Dr Ashley Nisbet</td>
<td>How closely should we look for clinical disease in patients with a family history of cardiomyopathy? Prof Sanjay Sharma</td>
<td>A Cardiology Fellowship in Canada Dr Aami Mathumala</td>
</tr>
</tbody>
</table>
## Tuesday

### Main programme details

#### 08:30 – 10:00

<table>
<thead>
<tr>
<th></th>
<th>Location</th>
<th>Event Details</th>
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<tbody>
<tr>
<td><strong>Auditorium E4R</strong></td>
<td><strong>Tuesday 6 June</strong></td>
<td><strong>2017 Annual Conference and Exhibition</strong></td>
</tr>
<tr>
<td>26</td>
<td>ECG Interpretation with Simon Fynn and Edward Rowland</td>
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<tr>
<td><strong>Exchange Hall</strong></td>
<td>Combat Cardiology Chairs: Wg Cdr Edward Nicol, Dr Richard Jones, Surg Cdr Paul Rees Wg Cdr Joanna d’Arcy Maj Andrew Cox Dr Ingrid Dumitriu</td>
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<tr>
<td>27</td>
<td>Royal Navy cardiology – from cath lab to combat rescue Army cardiology – maintaining the fighting force on operations</td>
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<td>28</td>
<td>Monocytes/macrophages and their fate in ischaemic heart disease Tissue resident macrophages and the healing heart</td>
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<tr>
<td>29</td>
<td>Innovations in coronary physiology and intervention Chairs: Dr Iain Simpson, Prof Keith Oldroyd, Prof Simon Redwood Prof Colin Berry</td>
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<tr>
<td><strong>Charter 2/3</strong></td>
<td>Leukocytes in cardiovascular inflammation: Resident and infiltrating cells Chairs: Dr Endre Kiss-Toth, Dr Heather L Wilson, Dr Andrew Sage Dr Ingo Hilgendorf Dr Gillian Gray Dr Venizelos Papayannopoulos</td>
<td></td>
</tr>
<tr>
<td><strong>Charter 4 BASIC SCIENCE</strong></td>
<td>Innovations in coronary physiology and intervention Coronary physiology in exercise and aortic stenosis Dr Divaka Perera Advances in coronary stenting – bioabsorbable, polymer-free DES or bare metal? Prof Adrian Banning Measuring microvascular dysfunction in the cath lab Prof Colin Berry</td>
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</tr>
<tr>
<td><strong>Charter 1 AFFILIATED GROUP – BCCA</strong></td>
<td>Aortopathies Chairs: Dr Paul Clift, Prof David Anderson, Inherited aortopathy syndromes: genetic basis and clinical importance Dr Catherine Mercer Bicuspid aortopathy: when to be worried Dr Aidan Bolger How to manage aortic dissection in the 21st Century Prof Christoph A Nienaber</td>
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</tbody>
</table>
Tuesday

Main programme details

08:30 – 10:00  Exchange 8,9,10  CLINICAL PHYSIOLOGISTS/HEALTHCARE SCIENTISTS

31  Session 1: Imaging
Chair: Dr Martin Stout
Cardiac adaptation and altitude
Dr Martin Stout
Echocardiography and cardiac parameters during ultra exercise
Dr David Oxborough
Cardiac performance and thermal stress
Prof Jose Gonzalez-Alonso

09:00 – 12:00  Exchange 11  E4R

32  BCS revalidation: Lifelong Learning Programme
Moderators: Dr Michael Cooklin, Prof Simon Ray, Dr Amir Zaidi, Dr Clive Lawson

10:45 – 12:15  Auditorium  BCS HIGHLIGHT SESSION

33  Extreme flying and the cardiovascular system
Chairs: Dr Kim Rajappan, Dr Robert Howard Swanton
The applied cardiovascular physiology of flight and space flight
Wg Cdr Nic Green & Wg Cdr Pete Hodkinson
Clinical evaluation and regulation of Extreme Performance pilots
Wg Cdr Edward Nicol
The experience of extreme flight
Sqn Ldr Gaz Kennedy

10:45 – 12:15  Exchange Hall  MDT-LIVE

34  Pregnancy and the Heart
Chairs: Dr Sara Thorne, Prof Bernard Clarke
Pregnancy-associated mortality: results from MBRRACE-UK (30 mins)
Dr Rachael James
Pregnancy MDT-Live. Facilitator and case presenter:
Dr Sara Thorne
Panelists: Dr Sarah Vause, Dr Catherine Head, Dr Kailash Bhatia, Dr Steven Yentis

10:45 – 12:15  Charter 2/3  BCS/BSCR/BAS HIGHLIGHT

35  Will stem cell research change clinical practice?
Chairs: Prof Sian Harding, Dr Sanjay Sinha
Stem cells for disease modelling and drug screening – are they clinically useful?
Prof Chris Denning
Will activating resident stem cells be clinically feasible?
Prof Paul Riley
Why have clinical stem cell trials not delivered impact on clinical outcomes?
Prof Stefan Janssens
How to deliver success in the future stem cell trials: challenges, controversies and solutions
Prof Philippe Menasche

10:45 – 11:45  Charter 4  INNOVATIONS IN CLINICAL CARDIOLOGY

36  Innovations in assessing risk of sudden death
Chairs: Dr Elijah Behr, Prof Pier Lambiase
Role of the ECG in predicting sudden death
Prof Andre Ng
Imaging, genes and biomarkers to identify patients with DCM at risk
Dr Sanjay Prasad
Novel strategies for SCD risk prediction in HCM
Dr Andrew Grace

11:45 – 12:15 Abstracts in Cardiac Rhythm Management (32-53), Poster Area Education Hall
Abstract Numbers: 32-35
Dr Stephen Page, Dr Mark Earley
Abstract Numbers: 36-38
Dr Sanjiv Petkar, Dr Patrick Heck

Panel discussion
Discussion of evidence/literature
Panel/Audience interaction
Case conclusion
Tuesday

Main programme details

Abstract Numbers: 39-41
Dr Antony French, Prof Paulus Kirchhof

Abstract Numbers: 42-44
Dr Simon Fynn, Prof Pier Lambiase

Abstract Numbers: 45-47
Prof Andre Ng, Dr Nicholas Kelland

Abstract Numbers: 48-50
Dr Andrew Grace, Dr Elijah Behr

Abstract Numbers: 51-53
Dr Craig Barr, Dr Neil Andrews

10:45 – 12:15  Charter 1
37   Cardiology in Primary Care
Session 1: Difficult decisions in the community
Chairs: Dr Jane Skinner, Dr Kathryn Griffith
Atrial fibrillation – how to get all patients anticoagulated
Ms Jayne Mudd
Chest pain with no interventional option (refractory angina)
Dr Clare Louise Hawley
End of life issues in heart patients
Mr Michael Connolly

10:45 – 12:15  Exchange 8,9,10
38   Session 2: Abstract presentation session
Chairs: Dr Christopher Eggett, Mr Jeffery Davison
Echocardiographic measures of pulmonary hypertension and the prediction of end-points in sickle cell disease
Miss Kelly Victor
‘Please don’t Shock Me’ – Palliative care for device patients
Mrs Suzanne Squirrel
Aortic valve area in patients with aortic stenosis and sinus rhythm / atrial fibrillation
Ms Lois Albin
Clinical utility of 18F-FDG PET/CT imaging in cases of suspected but not proven cardiac implantable electronic device infection
Ms Stephanie Smith

12:20 – 13:40  Charter 2/3
39   Young Investigators Prize Competition
Chairs: Prof Rod Stables, Prof Metin Avkiran
Endothelium-Derived Extracellular Vesicles Promote Splenic Monocyte Mobilisation In Myocardial Infarction
Presenter: Dr Naveed Akbar
Judge: Dr Sean Davidson
Mitochondrial Function Regulates Arterial Ageing in Mice
Presenter: Dr Kirsty Foote
Judge: Prof Jane Mitchell
Hyperpolarized Magnetic Resonance Imaging of Cardiac Inflammation and Repair
Presenter: Dr Andrew Lewis
Judge: Prof Colin Berry
Atherosclerotic Inflammation Imaging Using 68Ga-DOTATATE PET vs. 18F-FDG PET: A Prospective Clinical Study with Molecular and Histological Validation
Presenter: Dr Jason Tarkin
Judge: Dr Parthiban Arumugam
Eosinophils Have An Essential Role In Cardiac Repair Following Myocardial Infarction
Presenter: Dr Iqbal Singh Toor
Judge: Prof Nadia Rosenthal

13:45 – 15:15  Auditorium
40   Extreme diving in humans and other animals
Chairs: Prof Clifford Garratt, Dr Anthony W. Nathan
Diving in Crocodiles: Cardiovascular Intricacies and Tricks
Prof Craig Franklin
Cardiovascular risks of diving in the apparently normal human
Dr Peter Wilmshurst
Diving after cardiac procedures
Dr Mark Turner
**Tuesday**

**Main programme details**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
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<tbody>
<tr>
<td>13:45 – 15:15</td>
<td>Exchange Hall</td>
<td><strong>IMAGING TRACK</strong></td>
</tr>
</tbody>
</table>
| 41              | Controversies in the investigation of stable chest pain | Chairs: Dr Guy Lloyd, Prof Rod Stables  
NICE guidelines for stable chest pain: overview of changes  
*Dr Andrew Kelion*  
Implementation: technology and expertise availability  
*Dr Edward Nicol*  
Anatomical versus functional imaging: impact on “unnecessary angiography”  
*Prof Gerry McCann*  
FFRct: NICE technology update  
*Dr James Stirrup* |
| 13:45 – 15:15   | Poster Area, Education Hall       | **BASIC SCIENCE**                                                    |
| 42              | BSCR/BAS Poster Session 2         | Abstracts: Basic Science 2 (187-233)                                 |
| 13:45 – 15:15   | Charter 1                         | **CLINICAL PHYSIOLOGISTS/HEALTHCARE SCIENTISTS**                     |
| 43              | Cardiology in Primary Care        | Session 2: Which patients should I refer? Which patients should I admit  
Chairs: Prof Nicholas Linker, Prof Ahmet Fuat  
The breathless patient who I don’t think has heart failure  
*Dr Nigel Rowell*  
Syncope: neurology or cardiology or both?  
*Dr Amir Zaidi*  
Which patient with palpitations should I take seriously?  
*Dr Derick Todd* |
| 13:45 – 15:15   | Exchange 8,9,10                   | **CLINICAL PHYSIOLOGISTS/HEALTHCARE SCIENTISTS**                     |
| 44              | Session 3: Cardiac rhythm management | Chairs: Mr Stuart Allen, Dr Paul Broadhurst  
SCD in ultra-athletes  
*Dr Aneil Malhotra*  
Atrial arrhythmias in athletes – should they all have ILR’s implanted?  
*Dr Gwilym Morris*  
CRM case presentation  
*Mr Greg Smith* |
| 13:30 – 16:30   | Exchange 11                        | **E4R**                                                             |
| 45              | BCS revalidation: Lifelong Learning Programme | Moderators: Dr Robert Henderson, Prof Simon Ray, Dr Rick Steeds, Dr Michael Cooklin |
| 16:00 – 17:30   | Auditorium                        | **BCS HIGHLIGHT SESSION**                                            |
| 46              | At the Polar Extremes             | Chair: Prof Clifford Garratt  
South Georgia, Shackleton and the Heart  
*Mr Martin Thomas and Dr Janice Till*  
Adventures in the Polar Extremes  
*Ms Sue Fleet* at |
## Tuesday

### Main programme details

<table>
<thead>
<tr>
<th>Time</th>
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<th>Session</th>
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</table>
| 16:00 – 17:30       | Exchange Hall          | Joint BCS/ESC Session: Recent guidelines from the ESC – heart failure and prevention of cardiovascular disease  
                      |                        | Chairs: Dr Sarah Clarke, Prof Barbara Casadei  
                      |                        | The ESC guidelines on heart failure; an update  
                      |                        | Prof Frank Ruschitzka  
                      | 47                   |                        | ESC Guidelines on Heart Failure:  
                      |                        | The Good, The Bad and The Ugly  
                      |                        | Prof John Cleland  
                      | 47                   |                        | The ESC guidelines on Prevention of Cardiovascular Disease  
                      |                        | Prof Massimo F. Piepoli  
                      |                        | A UK perspective on the ESC Prevention guidelines  
                      |                        | Dr Scott Murray  
| 16:00 – 17:30       | Charter 2/3            | Diabetes and cardiovascular disease  
                      |                        | Chairs: Dr David Grieve, Dr Sean Davidson  
                      | 48                   |                        | Oxidative stress and diabetic cardiovascular complications  
                      |                        | Dr Sihem Boudina  
                      |                        | Epigenetic signatures and cardiovascular risk in diabetes  
                      |                        | Prof Francesco Cosentino  
                      |                        | Bone marrow and stem cells in diabetic vascular disease  
                      |                        | Prof Gian Paolo Fadini  
                      |                        | Cellular mechanisms of vascular dysfunction in diabetes  
                      |                        | Dr Karen Porter  
                      |                        | Poster Prize Giving  
| 16:00 – 17:30       | Charter 1              | Cardiology in Primary Care  
                      | 49                   |                        | Session 3: What’s New?  
                      |                        | Chairs: Dr Sebastian Alexander, Prof Andrew Clark  
                      |                        | Revised NICE chest pain guidance: what are the implications?  
                      |                        | Dr Ivan J. Benett  
                      |                        | Eplerenone & Entresto: is E good for patients with heart failure?  
                      |                        | Prof Theresa McDonagh  
                      |                        | What’s new in AF management (ablation vs lifestyle)  
                      |                        | Dr C. Fielder Camm  
| 16:00 – 17:30       | Exchange 8,9,10        | Session 4: Workforce and Professional Practice  
                      | 50                   |                        | Chair: Mrs Su Baxter  
                      |                        | The strategic Review of cardiac physiology – 2 years on – where are we now and where are we going?  
                      |                        | Mr Mark Squirell  
                      |                        | Supporting you Profession – what have they ever done for me!!!  
                      |                        | Mr Jason Collinson, Mrs Su Baxter  
                      |                        | Leading Healthcare Science  
                      |                        | Ms Anne-marie Newsholme  
| 17:30 – 18:30       | Auditorium             | Strickland Goodall Lecture  
                      | 51                   |                        | Introduced by  
                      |                        | Prof Sir Nilesh Samani  
                      |                        | Exploring the extremes of myocardial injury  
                      |                        | Prof Michael Marber  
                      |                        | Thanked by  
                      |                        | Prof Clifford Garratt  

2017 Annual Conference and Exhibition
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<th>Track</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30 - 10:00</td>
<td><strong>AUDITORIUM</strong></td>
<td><strong>EXCHANGE HALL</strong></td>
<td><strong>CHARTER 2/3</strong></td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>E4R</td>
<td>Atrial fibrillation update</td>
<td>52 Imaging Track</td>
</tr>
<tr>
<td></td>
<td>08:30 - 10:00</td>
<td>Aortic stenosis in 2017</td>
<td>53 Imaging Track</td>
</tr>
<tr>
<td>10:00 - 10:45</td>
<td><strong>BREAK</strong></td>
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<tr>
<td>10:45 - 12:15</td>
<td><strong>10:45 - 12:15</strong></td>
<td><strong>MDT-Live</strong></td>
<td>59 MDT-Live Arhythmias MDT-Live</td>
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<tr>
<td>12:15 - 13:45</td>
<td><strong>LUNCH</strong></td>
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<tr>
<td>13:45 - 15:15</td>
<td><strong>13:45 - 15:15</strong></td>
<td><strong>E4R</strong></td>
<td>62 Imaging Track Innovations in cardiovascular imaging</td>
</tr>
<tr>
<td>15:45 - 17:00</td>
<td><strong>E4R</strong></td>
<td>The Top 10 Trials</td>
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The following key enables individual tracks to be identified throughout the Programme:
- **Basic Science (BAS/BSCR) Spring Meeting**
- **BHF Sessions**
- **Clinical Physiologists / Healthcare Scientists**
- **E4R**
- **Imaging Track**
- **Innovations in Clinical Cardiology Track**
- **Training Day**
- **BCS Highlight Sessions**
- **CCP (UK) Day**
- **BCS AGM Members Only (12:30 – 13:30)**
- **Lunch**
### Wednesday 7 June

#### Programme at a glance – Hot Topics in the Education Hall

All sessions in Education Hall

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<tr>
<th>LOCATION: TOPIC/ CATEGORIES:</th>
<th>ZONE 1 (INTERVENTION, CORONARY AND VALVE DISEASE)</th>
<th>ZONE 2 (ARRHYTHMIAS, PACING, SYNCOPE, ICC)</th>
<th>ZONE 3 (BASIC SCIENCE, HEART FAILURE, IMAGING)</th>
<th>ZONE 4 (TRAINEES, ACHD, IMAGING, PREVENTION)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Functional cardiac imaging: the best thing since sliced bread</td>
<td>Investigating arrhythmias with the implantable loop recorder</td>
<td>MRI scanning and device therapy; current issues</td>
<td>How to be successful in writing grant applications</td>
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<td></td>
<td>Prof John Greenwood</td>
<td>Dr Guy Furniss</td>
<td>Dr Charlotte Manisty</td>
<td>Prof Michael Marber</td>
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<td></td>
<td>10:25 – 10:40</td>
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<td></td>
<td>Functional cardiac imaging: over-used, over-priced and over here</td>
<td>Which patients should receive CRT without a defibrillator?</td>
<td>Top tips for device implantation</td>
<td>BHF Hot Topic 6. Implications of Brexit for medical research</td>
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<tr>
<td></td>
<td>Prof Adam Timmis</td>
<td>Dr Derek Connelly</td>
<td>Prof Francisco Leyva</td>
<td>Miss Chloe Watson</td>
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<td>11:00 – 11:15</td>
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<td></td>
<td>In-lab functional assessment of coronary lesions</td>
<td>AF and athletes</td>
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<td></td>
<td>Dr Kanarth Balachandran</td>
<td>Dr Nicholas Linker</td>
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<td>11:15 – 11:30</td>
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<td></td>
<td>How and when should post-infarct VSDs be managed?</td>
<td>Bradycardia and athletes: not as benign as previously thought?</td>
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<td></td>
<td>Dr Joseph De Giovanni</td>
<td>Dr Mark Boyett</td>
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<td>11:30 – 11:45</td>
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<td></td>
<td>Minimally-invasive interventions for mitral valve incompetence</td>
<td>Use of computer models of cardiac arrhythmias as innovative teaching tools</td>
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<td></td>
<td>Dr Gareth Rosser</td>
<td>Dr Malcolm Finlay</td>
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<td></td>
<td>Left atrial appendage closure: indications, guidelines, trials</td>
<td>Sudden death and athletes</td>
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<td></td>
<td>Dr Adrian Large</td>
<td>Dr Anel Mahatra</td>
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<td></td>
<td>An abnormal CT coronary angiogram in a patient with no or atypical symptoms; what next?</td>
<td>Evidence-based management of torsades de pointes</td>
<td>Diagnosing patient/prosthetic valve mismatch with stress echo</td>
<td>ASD closure in the over-60s</td>
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<tr>
<td></td>
<td>Prof James Cotton</td>
<td>Dr Chris Pepper</td>
<td>Dr Sanjeev Bhattacharyya</td>
<td>Dr Paul Clift</td>
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<td></td>
<td>FFR in stable CAD: used appropriately or underutilised?</td>
<td>BHF Hot Topic 7. How to engage the public with your research</td>
<td>Quantification of prosthetic valve regurgitation</td>
<td>Do small VSDs need follow-up?</td>
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<tr>
<td></td>
<td>Dr Michael Mahmoudi</td>
<td>Miss Christie Norris</td>
<td>Prof Saul Myerson</td>
<td>Dr Konstantinos Dimopoulos</td>
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<td>13:00 – 13:15</td>
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<td></td>
<td>Assessing and managing risk in patients undergoing non-cardiac surgery</td>
<td>An overview of syncope: syndromes within syndromes</td>
<td>Diagnosis of acute valve thrombosis</td>
<td>Are biomarkers useful in congenital heart disease?</td>
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<td></td>
<td>Prof Rajesh Kharbanda</td>
<td>Dr Nicholas Gall</td>
<td>Dr Francesca Pugliese</td>
<td>Dr Hamish Walker</td>
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<td></td>
<td>Radiation exposure and the interventional cardiologist</td>
<td>Management of inappropriate sinus tachycardia</td>
<td>Role of PET CT in diagnosing valve endocarditis</td>
<td>Should all failing Fontans be offered a transplant?</td>
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<tr>
<td></td>
<td>Dr Peter Haworth</td>
<td>Dr Sajad Hayat</td>
<td>Dr Marc Dweck</td>
<td>Dr David S. Crossland</td>
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### During Morning Sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:10</td>
<td>During Coffee Break</td>
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<td>10:25</td>
<td>Functional cardiac imaging: the best thing since sliced bread</td>
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<td>Management of inappropriate sinus tachycardia</td>
<td>Dr Sajad Hayat</td>
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</tbody>
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Wednesday

Main programme details

08:30 – 10:00  Auditorium

52  Atrial fibrillation update
   Chairs: Dr Adam Fitzpatrick, Dr Dhiraj Gupta
   Cardioversion: who, why and when?
   Dr Stephen Page
   Should we abandon warfarin?
   Prof Paulus Kirchhof
   Ablate or lose weight?
   Dr Darragh Twomey

08:30 – 10:00  Exchange Hall

53  Aortic stenosis in 2017
   Chairs: Prof Simon Ray, Prof Philip MacCarthy
   Why do we get aortic stenosis?
   Dr Marc Dweck
   Assessing stenosis severity: not so simple!
   Dr Thomas Mathew
   TAVR versus SAVR: a therapeutic dilemma?
   Dr Douglas Muir

08:30 – 10:00  Charter 2/3  IMAGING TRACK

54  Amyloidosis and the heart
   Chairs: Dr Simon Dubrey, Prof James Moon
   Introduction to cardiac amyloid: types and treatment options
   Dr Carol Whelan
   Echo and CMR in cardiac amyloid and its mimics
   Dr Marianna Fontana
   Nuclear techniques in cardiac amyloid and its mimics
   Dr Leon Menezes
   Integrated diagnostic pathways and service configurations in cardiac amyloid
   Prof Philip Hawkins

08:30 – 09:30  Charter 4  INNOVATIONS IN CLINICAL CARDIOLOGY

55  New diagnostic approaches in ACS and vascular inflammation
   Chairs: Prof Peter Weissberg, Prof Keith Channon
   Vascular PET imaging (inflammation and hypoxia)
   Dr James Rudd
   Multimodal imaging of atherosclerosis
   Prof Robin Choudhury
   Biomarkers for ACS
   Prof Nicholas Mills

09:30 – 10:00 Abstracts in Acute coronary syndromes/ACHD (54-85), Poster Area Education Hall

Abstract Numbers: 54-57
Prof Peter Weissberg, Prof Mamas Mamas
Abstract Numbers: 58-60
Prof Keith Channon, Dr Andrew Wragg
Abstract Numbers: 61-63
Dr James Rudd, Dr Richard Anderson
Abstract Numbers: 64-66
Prof Robin Choudhury, Dr Shahzad Munir
Abstract Numbers: 67-69
Prof Nicholas Mills, Dr Robert Butler
Abstract Numbers: 70-72
Dr Narbeh Melikian, Dr Magdi El-Omar
Abstract Numbers: 73-74
Dr Samantha Fitzsimmons, Dr Petra Jenkins
Abstract Numbers: 75-77
Prof Bernard Clarke, Dr Elizabeth Orchard
Abstract Numbers: 78-80
Dr Joseph de Bono, Dr Ashley Nisbet
Abstract Numbers: 81-83
Dr Aidan Bolger, Dr Sonya Babu-Narayan
Abstract Numbers: 84-85
Dr Catherine Head, Dr Ashish Shah
Wednesday

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<th>Time</th>
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<td>08:30 – 10:00</td>
<td>Charter 1</td>
<td>Strenuous exercise and the heart</td>
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<tr>
<td>08:30 – 10:00</td>
<td>Exchange 8,9,10</td>
<td>Cardiology in the Vulnerable</td>
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<td>09:00 – 10:30</td>
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<td>Session 1: Mobilising the Voice</td>
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<td>10:45 – 12:15</td>
<td>Auditorium MDT-Live</td>
<td>Arrhythmias MDT-Live</td>
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<td>10:45 – 12:15</td>
<td>Exchange Hall</td>
<td>Transient loss of consciousness; guidelines for drivers and pilots</td>
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<tr>
<td>10:45 – 12:15</td>
<td>Charter 2/3</td>
<td>Sarcoidosis and the heart</td>
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**Strenuous exercise and the heart**
Chairs: Dr Graham Stuart, Dr Antoinette Kenny
Cardiovascular adaptation in young athletes:
Differentiation of the fabulously fit from the fatally flawed
Dr Amanda Varnava
Screening young athletes to prevent sudden cardiac death:
What is the evidence?
Dr Anel Malhotra
Impact of ultramarathon running on the heart
Prof Pierre Croisille
Exercise: Does ideal therapy become the bitter pill?
Prof Sanjay Sharma

**Cardiology in the Vulnerable**
Chairs: Mrs Hannah Waterhouse, Dr David Walker
Cardiology in Extreme Frailty
Dr David Walker
Hypertension management in a prison population
Ms Michelle Bennett
Cardiology in the Dying
Dr Sarah Bowater

**Session 1: Mobilising the Voice**
Chair: Mr Paul Willgoss
Introduction: Mr Trevor Fernandes
Patient insight and experience to inform National services
Dr Neil Churchill
Q&A Session

**Arrhythmias MDT-Live**
Moderator: Dr Stephen Murray
Case presentations: Names
Panelists: Dr Derick Todd, Dr Timothy Irvine, Dr Howard Marshall, Dr Rajiv Das, Dr David Lindsay, Prof Andre Ng
Panel discussion
Discussion of evidence/literature
Panel/audience interaction
Case conclusion

**Transient loss of consciousness; guidelines for drivers and pilots**
Chairs: Dr Michael Griffith, Dr Stuart Mitchell
How guidelines evolve
Dr Michael Griffith
TLOC and driving
Prof Garth Cruickshank
TLOC and flying
Dr Sean O’Nunain
Case presenters: Dr Michael Griffith, Dr Shrila Banerjee
Panelists: Dr Stuart Mitchell, Prof Garth Cruickshank, Dr Sean O’Nunain, Dr Mark Anderson, Dr Nicholas Gall

**Sarcoidosis and the heart**
Chairs: Dr Nicola Edwards, Dr Simon Dubrey
Cardiac sarcoidosis: overview, pathogenesis, clinical manifestations
Prof Perry Elliott
An approach to diagnosis and management of sarcoidosis
Dr Rakesh Sharma
The role of cardiac MR (including case presentation)
Dr Daniel Sado
The role of PET-CT (including case presentation)
Dr Kshama Wechalekar
**Wednesday**

**Main programme details**

**10:45 – 11:45  Charter 4  INNOVATIONS IN CLINICAL CARDIOLOGY**

62  **Innovations in preventative cardiology**  
Chairs: Mrs Sally Hinton, Dr Hayes Dalal  
What does the interventionalist need to know about rehabilitation?  
Dr Joseph Mills  
The role of HIT training in the general population and in cardiac patients  
Dr Simon Nichols  
Cardiovascular risk factor and lifestyle management in the treatment of hypertension  
Dr Adam Greenstein  
PCSK9 inhibition and cardiovascular outcomes  
Prof Peter Sever

11:45 – 12:15 Abstracts in Stable IHD/Prevention/Hypertension/Lipids (86-103), Poster Area Education Hall

Abstract Numbers: 86-88  
Prof Anthony Heagerty, Dr Piers Clifford  
Abstract Numbers: 89-91  
Dr Stephen Holmberg, Prof Jamil Mayet  
Abstract Numbers: 92-94  
Dr Adam Greenstein, Prof Maciej Tomaszewski  
Abstract Numbers: 95-97  
Dr Mike Knapton, Dr Kevin Beatt  
Abstract Numbers: 98-100  
Dr Ivan J. Benett, Dr Balvinder Wasan  
Abstract Numbers: 101-103  
Dr Rodney Foale, Dr Nicos Spyrou

**10:45 – 12:15  Exchange 8,9,10  BCS/BRITISH ASSOCIATION OF STROKE PHYSICIANS**

64  **Dilemmas in investigation and management of embolic stroke**  
Chairs: Prof Rustam Al-Shahi Salman, Dr Joseph de Bono  
Detection of AF after suspected cardio-embolic ischaemic stroke  
Dr Neil Sulke  
Treatment of embolic stroke of undetermined source (ESUS)  
Dr William Whiteley  
Oral anticoagulation for AF after intracranial haemorrhage  
Prof Rustam Al-Shahi Salman  
When can left atrial appendage occlusion be a substitute for oral anticoagulation?  
Prof Gregory Lip

**10:45 – 12:15  Charter 1  AFFILIATED GROUP – BHVS**

63  **Prosthetic heart valves: State-of-the-art**  
Chairs: Prof Philip MacCarthy, Mr Ragheb Hasan  
Which prosthesis and when? A surgeon’s perspective  
Prof Olaf Wendler  
Antithrombotic strategies with prosthetic heart valves – are they getting any simpler?  
Dr Sanjeev Bhattacharyya

**10:45 – 12:30  Exchange 11  CARDIOVASCULAR CARE PARTNERSHIP (UK)**

65  **Session 2: Informing the voice**  
Chairs: Mr Richard Corder, Mrs Pauline Mountain  
Edible ways to a healthy heart – the role of nutrition in CVD  
Dr Tom Butler  
Steps For Success: Living well in the digital age  
Ms Avril Copeland

**13:45 – 15:15  Auditorium**

66  **The BCS Quiz**  
Organiser: Dr Arthur Yue  
Quizmaster: Prof Rod Stables  
BCIS Team  
Captain: Prof Adrian Banning  
Prof Julian Gunn, Prof Azfar Zaman, Dr Helen Routledge, Mrs Sarah Carson, Dr Bethan Freestone

2017 Annual Conference and Exhibition
Wednesday

Main programme details

BHRS Team
Captain: Prof Nicholas Linker, Dr Amir Zaidi
Dr Alistair Slade, Dr Joseph de Bono, Dr Stephen Murray,
Mr Stuart Allen

BSCI Team
Captain: Dr Matthias Schmitt
Dr Edward Nicol, Dr James Stirrup, Dr Gareth Morgan-Hughes,
Dr Alistair Moss

13:45 – 15:15 Exchange Hall

67 Who needs an implantable device in 2017?
Chairs: Prof Francisco Leyva, Dr Amir Zaidi
Who needs a leadless pacemaker?
Dr Jenny Chuen
Who needs cardiac resynchronisation?
Dr Archana Rao
Who needs an implantable defibrillator?
Dr Howard Marshall

13:45 – 14:45 Charter 2/3

68 Innovations in cardiovascular imaging
Chairs: Dr Andrew Kelion, Prof John Greenwood
Clinical applications of hand-held echocardiography
Prof Petros Nihoyannopoulos
Developments in perfusion quantification
Prof Sven Plein
Detection of device infection and endocarditis with PET-CT
Dr Fozia Ahmed

14:45 – 15:15 Abstracts in Imaging (104-124),
Poster Area Education Hall
Abstract Numbers: 104-106
Dr Tim Fairbairn, Dr Thomas Mathew
Abstract Numbers: 107-109
Dr Parthiban Arumugam, Dr Guy Lloyd
Abstract Numbers: 110-112

13:45 – 14:45 Charter 4

69 Innovations in cardiac genetics
Chairs: Prof Nigel Wheeldon, Prof Hugh Watkins
The revolution in genetic testing for inherited cardiac conditions
Prof Bernard Keavney
Genetic basis for peripartum cardiomyopathy
Dr James Ware
New genes underlying sudden cardiac death
Dr Elijah Behr

14:45 – 15:15 Abstracts in Valve disease/pericardial
disease/cardioomyopathy (125-138) Poster Area
Education Hall
Abstract Numbers: 125-127
Prof Hugh Watkins, Prof Bernard Keavney
Abstract Numbers: 128-130
Dr James Ware, Dr Elijah Behr
Abstract Numbers: 131-133
Prof Nigel Wheeldon, Dr Ian Wilson
Abstract Numbers: 134-136
Prof Lawrence Cotter, Dr Andrew Wragg
Abstract Numbers: 137-138
Dr Matthew Luckie, Dr Douglas Fraser
### Wednesday

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<td>13:45 – 15:15</td>
<td>Charter 1</td>
<td><strong>Essentials of mitral valve disease and management</strong></td>
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<td>Chairs: Dr Jaydeep Sarma, Mr Enoch Akowuah</td>
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<td>Mitral valve anatomy and pathology</td>
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<td>Prof Simon Ray</td>
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<td>Imaging of the mitral valve</td>
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<td>Dr Dominik Schlosshan</td>
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<td>Mitral valve repair: indications and operative approaches</td>
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<td>Non-surgical intervention</td>
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<td>13:45 – 15:15</td>
<td>Exchange 8,9,10</td>
<td><strong>Heart failure crises</strong></td>
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<td>VT storm</td>
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<td>Dr Derek Connelly</td>
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<td>Cardiogenic shock</td>
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<td>Dr Stephen Pettit</td>
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<td>Diuretic resistance</td>
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<td>13:30 – 15:15</td>
<td>Exchange 11</td>
<td><strong>Session 3: Strengthening and passing on the carer Voice</strong></td>
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<td>Trusted Partnerships</td>
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<td>Dr Amir Hannan</td>
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<td>Pharmacy; more than just a counter service</td>
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<td>Ms Anne Joshua</td>
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<td>Panel discussion / Q&amp;A</td>
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<td>15:45 – 17:00</td>
<td>Auditorium</td>
<td><strong>The Top 10 Trials</strong></td>
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<td>Chairs: Dr Robert Henderson, Dr Arthur Yue</td>
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<td>Dr Roy Gardner</td>
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Abstracts and Posters

Clinical Abstracts (excluding Basic Science)

This year 185 abstracts were submitted under 7 categories (excluding Basic Science – see below). Separate submissions were made for the Young Investigators Prize (YIP) competition. The abstracts were marked by independent experts and the YIP submissions were marked by the Academic & Research Committee. The list of abstract markers is given in full on our website, www.bcs.com/conference. The acceptance rate was 75% this year giving a total of 138 abstracts which make up the 7 abstract sessions. The abstracts will be on display for the duration of the conference in the Education Hall.

Basic Science Abstracts

The Basic Science abstracts for BCS, BAS, BSCR were combined into a single category. There were 113 abstracts submitted. The abstracts were marked by independent experts from BCS, BAS and BSCR. The list of abstract markers is given in full on our website. The acceptance rate was 84% this year giving a total of 95 abstracts. The Basic Science abstracts will be presented on Monday from 16:00 and Tuesday from 13:45 in the Education Hall.

Listing of posters by time and venue

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<td>Heart Failure (1-20)</td>
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<td>Acute coronary syndromes/ACHD (54-85)</td>
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<td>Stable IHD/Prevention/Hypertension/Lipids (86-103)</td>
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<td>13:45 Charter 2/3</td>
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<td>Imaging (104-124)</td>
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<td>Valve disease/pericardial disease/ cardiomyopathy (125-138)</td>
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Basic Science

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<td>16:00 Education Hall</td>
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<td>Basic Science 2 (187-233)</td>
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A full listing of all abstracts is available on the BCS website

www.bcs.com/conference
Abstracts and Posters

BCS Young Investigators Prize Competition

The final of the BCS Young Investigators Prize Competition will be judged on Tuesday from 12:15 in Charter 2/3.

A  ENDOTHELIUM-DERIVED EXTRACELLULAR VESICLES PROMOTE SPLENIC MONOCYTE MOBILISATION IN MYOCARDIAL INFARCTION
Dr Naveed Akbar
Division of Cardiovascular Medicine, Radcliffe Department of Medicine, University of Oxford

B  MITOCHONDRIAL FUNCTION REGULATES ARTERIAL AGEING IN MICE
Dr Kirsty Foote
Division of Cardiovascular Medicine, University of Cambridge, Hills Road, Cambridge

C  HYPERPOLARIZED MAGNETIC RESONANCE IMAGING OF CARDIAC INFLAMMATION AND REPAIR
Dr Andrew JM Lewis
Department of Physiology, Anatomy and Genetics, University of Oxford

D  ATHEROSCLEROTIC INFLAMMATION IMAGING USING 68Ga-DOTATATE PET VS. 18F-FDG PET: A PROSPECTIVE CLINICAL STUDY WITH MOLECULAR AND HISTOLOGICAL VALIDATION
Dr Jason M. Tarkin
Division of Cardiovascular Medicine, University of Cambridge

E  EOSINOPHILS HAVE AN ESSENTIAL ROLE IN CARDIAC REPAIR FOLLOWING MYOCARDIAL INFARCTION
Dr Iqbal S. Toor
BHF/University Centre for Cardiovascular Science, Queen’s Medical Research Institute, University of Edinburgh, Edinburgh
Floor Plan and Exhibitors

Education Hall Floor Plan

The Education Hall will be open the following times:
Monday 5 June: 09:30 to 17:30
Tuesday 6 June: 08:00 to 17:30
Wednesday 7 June: 08:00 to 16:00
Floor Plan and Exhibitors
Manchester Central Venue Plan
## Exhibitors Guide

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<td>British Journal of Cardiac Nursing</td>
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Exhibitors Guide

Exhibitors Listing

4ways  Stand no. 05
Tel: 0144 226 0322
Email: marketing@4waysdiagnostics.co.uk
Website: www.4waysdiagnostics.co.uk

We offer a cardiologist-led remote diagnostic reporting service in advanced cardiac imaging. Our service focusses on providing timely, high quality post-processing and reporting of Cardiac MRI, Cardiac CT, including CTCA. We also offer a consultancy service which includes second opinion reporting for complex scans and advice for scan protocols.

A.Menarini Farmaceutica Internazionale SRL  Stand no. 30
Tel: 01628 856 400
Email: menarini@medinformation.co.uk

The Menarini Group, a privately owned, family-run business, ranks 17th among pharmaceutical companies in Europe and the leading Italian pharmaceutical company in the world. The two core strategic objectives that Menarini pursue are research and internationalism. Our commitment to the development of new medicines and therapeutic indications has consolidated our role as a partner for excellence in the pharmaceutical and biotechnology fields.

Acarix AS  Stand no. 17
Tel: +45 2972 4411
Email: info@acarix.com

Acarix AS, a Swedish/Danish medical device company presents CADScor® System. CADScor® System is a clinically proven, novel method for acoustic rule out of coronary atherosclerosis based on ultrasensitive phonocardiography. The innovative technology combines advanced electronics, acoustics and algorithms to provide a fast, radiation free and non-invasive method to rule out CAD.

ACON Laboratories, Inc.  Stand no. 20
Tel: +1 1858 875 8000
Email: sales@aconlabs.com
Website: www.aconlabs.com

For over 21 years, ACON has led the way in making high quality diagnostic and medical devices more affordable to people around the world. Our current product line includes; PT Coagulation Testing System, Cholesterol Monitoring System, Diabetes Care, Urine Analyzers, Hemoglobin (Hb) Testing System and other Clinical Chemistry Systems.

Akcea Therapeutics  Stand no. 19
Tel: 07884 115 904
Email: rjones@akceatx.com
Website: http://akceatx.com/

Akcea Therapeutics was established as a wholly owned subsidiary of Ionis Pharmaceuticals in 2015. Akcea was founded with a robust portfolio of development-stage drugs covering multiple targets and diseases. We are focused on transforming the lives of patients with serious cardiometabolic lipid disorders, through the development of advanced antisense therapies.

Amgen  Stand no. 12 & 38
Tel: 0122 342 0305
Email: Richard.Wadrup@amgen.com
Website: www.amgen.co.uk

Amgen is committed to unlocking the potential of biology for patients suffering from serious illnesses by discovering, developing, manufacturing and delivering innovative human therapeutics. A biotechnology pioneer since 1980, Amgen has reached millions of patients around the world and is developing a pipeline of medicines with breakaway potential.

BACPR/BANCC  Stand no. C06
Tel: 020 7380 1919
Email: shinton@bacpr.com
Website: www.bacpr.com / www.bancc.org

British Association for Cardiovascular Disease Prevention and Rehabilitation (BACPR) is a membership organisation for health and exercise professionals across the UK working in cardiovascular disease prevention and rehabilitation. www.bacpr.com

British Association for Nursing in Cardiovascular Care (BANCC) provides a forum for professional development and national representation for nurses in the UK who are involved in the care of cardiovascular patients. www.bancc.org
### Exhibitors Guide

#### Exhibitors Listing

<table>
<thead>
<tr>
<th>Company</th>
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<tbody>
<tr>
<td><strong>Bespoke Medical Indemnity</strong></td>
<td>48</td>
</tr>
<tr>
<td>Tel: 07747 624 080</td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:andy@medmal.co.uk">andy@medmal.co.uk</a></td>
<td></td>
</tr>
<tr>
<td>Website: <a href="http://www.bespokemedicalindemnity.co.uk">www.bespokemedicalindemnity.co.uk</a></td>
<td></td>
</tr>
<tr>
<td>With a unique understanding of Healthcare and Medical Malpractice Insurance. Bespoke Medical Indemnity are the perfect partner to arrange and look after your ongoing Medical Indemnity policy. With access to all key London Insurance Markets, Bespoke Medical Indemnity are able to work with you to select the policy that best meets your own specific needs. Managing Director Andy Foley will be available today to discuss your requirements.</td>
<td></td>
</tr>
</tbody>
</table>

| **Bristol-Myers Squibb / Pfizer Alliance**   | 40        |
| Website: www.bms.co.uk / www.pfizer.co.uk    |           |
| In 2007, Pfizer and Bristol-Myers Squibb entered into a worldwide collaboration to develop and commercialise apixaban, an 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. |           |

| **British Heart Foundation**                 | 22        |
| Tel: 0300 330 3322                           |           |
| Email: supporterservices@bhf.org.uk          |           |
| Website: www.bhf.org.uk                      |           |
| We are the nation’s heart charity and the largest independent funder of cardiovascular research. Implementation of our research into practice has improved cardiovascular services across the UK. Visit our stand to learn more about our research and how we can support you to optimise healthcare and improve outcomes for CVD patients. |           |

| **British Journal of Cardiac Nursing**       | C10       |
| Tel: 020 7738 5454                           |           |
| Email: bjcardn@markallengroup.com            |           |
| Website: www.cardiac-nursing.co.uk           |           |
| British Journal of Cardiac Nursing is the UK’s only monthly journal dedicated to cardiac nursing. Launched in January 2006, it has rapidly become essential reading for all nurses involved in this demanding specialty with its leading clinical coverage and professional focus. |           |

| **British Society of Echocardiography (BSE)**| C04       |
| Tel: 020 7345 5185                           |           |
| Email: gill@bsecho.org                       |           |
| Website: www.bsecho.org                      |           |
| Come visit our stand to get all the latest information on BSE Accreditation and Educational events. Also, ask us about ERP, the only dedicated echocardiography open access journal, now with PubMed status, free publication for BSE members in 2017! |           |

| **Cardiac Investigation Group**              | 44        |
| Tel: +31 616 025 633                         |           |
| Email: cs@tmsolutions.eu                     |           |
| Website: www.tmsolutions.eu                 |           |
| Cardiac Investigation Group offers excellent remote ECG/Holter interpretation services. Fully NEN 7510 and ISO certified. We work with large renowned hospitals throughout Europe. We offer fast and accurate service and make use of state of the art cable free holters for greater patient comfort and improved patient experience. |           |

| **Cardiac Risk in the Young (CRY)**         | C12       |
| Tel: 0173 736 3222                           |           |
| Email: cry@c-r-y.org.uk                      |           |
| Website: www.c-r-y.org.uk                   |           |
| Cardiac Risk in the Young (CRY) was established in 1995 to prevent young sudden cardiac deaths (YSCD, SADS) through awareness, screening and research; and to support affected families. CRY funds fast-track services at the CRY Centre for Inherited Cardiovascular Conditions and Sports Cardiology and the CRY Centre for Cardiac Pathology. |           |
Exhibitors Guide

Exhibitors Listing

Drug Safety Research Unit
Stand no. C08
Tel: 023 8040 8600 / 07436 099 917
Email: ROSE-ACSfacilitators@dsru.org
Website: www.dsru.org

The DSRU is an independent academic unit and registered charity internationally respected for its work in Pharmacovigilance, Pharmacoepidemiology, Risk Management and Training Services. The DSRU has many years’ experience of conducting observational studies including cohort studies in primary or secondary care settings, registries, case-control studies, database studies, and systematic reviews.

European Society of Cardiology
Stand no.08
Email: ncs@escardio.org
Website: www.escardio.org

The ESC is the world’s largest cardiovascular community, with over 95 000 members. Visit our stand team to discover how the ESC can support you through a wide array of scientific and educational content, with great benefits and exclusive access to resources when you become an ESC Professional Member.

InHealth Group
Stand no. 04
Tel: 01494 456 0000
Email: info@inhealthgroup.com
Website: www.inhealthgroup.com

Provider of expert diagnostic solutions and healthcare services for UK patients, in collaboration with the NHS, for over 25 years. First to bring cardiac enabled mobile solutions to the UK, our 15 dedicated cardiac enabled MRI units provide gold standard ROUTINE, CONGENITAL and STRESS CMRI scanning services using state-of-the-art equipment, including Siemens 18 Channel Avanto and Philips Achieva.

The Medical Defence Union (MDU)
Stand no. 50
Tel: 0800 716 376
Email: membership@themdu.com
Website: themdu.com

We are the UK’s leading medical defence organisation. We offer members guidance, support and defence if their clinical competence or care of patients is questioned. We have an unparalleled track-record of helping members overcome the challenges which threaten their livelihood. Visit us at stand 50 to discuss MDU membership.

NHS England
Stand no. 10
Tel: 0113 825 2140
Email: simon.woodsford@nhs.net
Website: www.england.nhs.uk/stps

How should clinicians shape the NHS of the future as the population’s needs change? Visit the NHS England stand to find about local sustainability and transformations partnerships.

In discussions will be:
- Professor Sir Bruce Keogh, the Medical Director of NHS England;
- Professor Huon Gray, National Clinical Director for Heart Disease;
- Doctor Matt Kearney, National Clinical Director for Cardiovascular Disease Prevention.

Novartis Pharmaceuticals UK Ltd
Stand no. 32
Tel: 0127 669 2255
Email: laura.matthews@novartis.com
Website: www.novartis.co.uk

Novartis provides innovative healthcare solutions that address the evolving needs of patients and societies. Headquartered in Basel, Switzerland, Novartis offers a diversified portfolio to best meet these needs: innovative medicines, eye care and cost-saving generic pharmaceuticals. For more information, please visit www.novartis.co.uk.

Philips Electronics UK Limited
Stand no. 26
Tel: 0845 601 1340
Email: charlotte.schrieken@philips.com
Website: www.philips.co.uk/healthcare

Philips offers a wide range of integrated cardiology solutions, including ultrasound, interventional x-ray and informatics, focusing on accelerating workflow, increasing efficiency and providing enhanced clinical insights. We are proud to have recently launched Azurion, the new-generation image guided therapy platform delivering unique user experience, enhanced lab performance and superior care.
### Exhibitors Guide

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<tr>
<th>Company</th>
<th>Stand no.</th>
<th>Contact Information</th>
</tr>
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<tbody>
<tr>
<td><strong>SADS UK</strong></td>
<td>C24</td>
<td>Tel: 0127 781 1215, Email: <a href="mailto:info@sadsuk.org">info@sadsuk.org</a>, Website: <a href="http://www.sadsuk.org">www.sadsuk.org</a></td>
</tr>
<tr>
<td>SADS UK works to save lives. The charity assists communities to put community public access defibrillators in place and organises training. The SADS UK Big Shock Campaign urges Government to legislate to make defibrillators compulsory in all schools. The charity works with schools to put defibrillators and training in place.</td>
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<tr>
<td><strong>Sanofi</strong></td>
<td>18 &amp; 28</td>
<td>Tel: 0148 350 5515, Website: <a href="http://www.sanofi.co.uk">www.sanofi.co.uk</a></td>
</tr>
<tr>
<td>Sanofi is a global life sciences company committed to improving access to healthcare and supporting the people we serve throughout the continuum of care. From prevention to treatment, we transform scientific innovation into healthcare solutions, in human vaccines, rare diseases, multiple sclerosis, oncology, immunology, infectious diseases, diabetes and cardiovascular solutions and consumer healthcare.</td>
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<tr>
<td><strong>Shire Pharmaceuticals</strong></td>
<td>54</td>
<td>Tel: 0125 689 4000, Website: <a href="http://www.shire.com">www.shire.com</a></td>
</tr>
<tr>
<td>Shire is the leading global biotechnology company focused on serving people with rare diseases and other highly specialised conditions. We strive to develop best-in-class products, many of which are available in more than 100 countries, across core therapeutic areas including Haematology, Immunology, Neuroscience, Ophthalmics, Lysosomal Storage Disorders, Gastrointestinal / Internal Medicine / Endocrine and Hereditary Angioedema; and a growing franchise in Oncology.</td>
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<tr>
<td><strong>UK TAVI</strong></td>
<td>C02</td>
<td>Tel: 0186 422 3476, Email: <a href="mailto:uktavi@nds.ox.ac.uk">uktavi@nds.ox.ac.uk</a>, Website: <a href="http://www.uktavi.org">www.uktavi.org</a></td>
</tr>
<tr>
<td>The UK TAVI trial is a multi-centre randomised controlled trial to assess the clinical effectiveness and cost-utility of TAVI, compared with conventional surgical AVR, in patients with severe symptomatic aortic stenosis, who are at intermediate or high operative risk. The trial involves all UK centres that currently perform TAVI.</td>
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<tr>
<td><strong>Vifor Pharma</strong></td>
<td>34</td>
<td>Tel: 0127 685 3600, Email: <a href="mailto:infoVPUK@viforpharma.com">infoVPUK@viforpharma.com</a>, Website: <a href="http://www.viforpharma.co.uk/">http://www.viforpharma.co.uk/</a></td>
</tr>
<tr>
<td>Vifor Pharma is a global leader in treatment of iron deficiency, a widespread condition. Vifor strategically partners with Fresenius Medical Care, specialists in nephrology. Together as Vifor Fresenius Medical Care Renal Pharma we develop and commercialise treatments for patients suffering from chronic kidney disease.</td>
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<tr>
<td><strong>Wisepress</strong></td>
<td>64</td>
<td>Tel: 020 8715 1812, Email: <a href="mailto:marketing@wisepress.com">marketing@wisepress.com</a>, Website: <a href="http://www.wisepress.com">www.wisepress.com</a></td>
</tr>
<tr>
<td>Wisepress.com, Europe’s leading conference bookseller, attend around 200 conferences every year. We have an extensive range of books and journals relevant to the themes of this conference available at our booth. We also have a comprehensive range of STM titles available on our online bookshop. Follow us on Twitter @WisepressBooks.</td>
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YOU KNOW IT ADDS UP

BHF research can help you transform care now:

• Every year, we invest over £100 million in cardiovascular research.
• We take that research and use it to test new approaches to earlier diagnosis and models of care.
• Then, with what we’ve learnt, we help you transform services to improve care and outcomes for people with CVD.

Visit us at stand 22 and find out how we can help you.

BCS ANNUAL CONFERENCE 2018

Date: 4 – 6 June 2018
Venue: Manchester Central, Manchester

In 2018 the BCS Annual Conference will again be held in Manchester. As always we will have a high quality programme waiting for you!

BCS Members can get free registration for the 2018 Annual Conference.

See you in Manchester!

www.bcs.com/conference
Repatha® is indicated in adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia, as an adjunct to diet:

- in combination with a statin or statin with other lipid lowering therapies in patients unable to reach LDL-C goals with the maximum tolerated dose of a statin or,
- alone or in combination with other lipid-lowering therapies in patients who are statin-intolerant, or for whom a statin is contraindicated.

Repatha® is indicated in adults and adolescents aged 12 years and over with homozygous familial hypercholesterolaemia in combination with other lipid-lowering therapies.

The effect of Repatha® on cardiovascular morbidity and mortality has not yet been determined.