



British Hypertension Society

30th Anniversary
Annual Scientific Meeting 2010

**Final
Programme**



**13th - 15th September 2010
Queens' College, Cambridge**



BRITISH HYPERTENSION SOCIETY

30th Anniversary Annual Scientific Meeting

13th – 15th September 2010, Queens' College, Cambridge

Executive Committee:

President: Professor M.J. Caulfield
Vice-President: Professor A.M. Heagerty
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Professor G. McVeigh
Professor S.H.D. Jackson
Dr. A.D. Watson

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Collaborative Research: Professor M.J. Brown
Educational Programmes: Dr. J. McLay
Guidelines & Information Service: Professor B. Williams
Nurses Working Party: Mrs. N. Stetson

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WELCOME

Dear Colleague,

On behalf of the Executive Committee, we should like to welcome you to the 30th Anniversary Meeting of the British Hypertension Society.

The Executive Committee should like to thank BHS members and their colleagues who have submitted abstracts for inclusion in the programme this year. We are also grateful to those members of the Society who have assisted the Executive Committee in its difficult task of reviewing the abstracts and compiling the programme. In addition to the free communications, the programme includes clinical case presentations, the latest news from clinical trials and reviews of the management of pulmonary hypertension and patients with pheochromocytoma.



We are delighted to welcome Professor Friedrich Luft (Berlin), who will be giving this year's Pickering Lecture, Professor Paolo Verdecchia (Perugia) and Melanie Armitage (Melbourne), who is the Society's guest as the winner of the High Blood Pressure Research Council of Australia Young Investigator award in December 2009.

We are really very grateful to Daiichi Sankyo UK Ltd. and our other sponsors and exhibitors for supporting this meeting.

We look forward to another stimulating and enjoyable conference, and to another 30 years of the BHS! I hope you have a great meeting.

Mark Caulfield

Professor Mark Caulfield
President

30 YEARS OF THE BHS

The BHS partly grew out of The Hypertension Society, which had held regular meetings in London starting in the mid-1970s. There was, however, a general feeling that the many groups in the UK that were making major contributions to research into hypertension, the commonest chronic medical condition worldwide, should have a forum for scientific interaction. In the autumn of 1980 informal meetings between Peter Sever, Gareth Beevers, Bert Thurston, Graham MacGregor, Peter Semple and John Reid firmed up the proposals and a UK-wide scientific meeting was held at the Arts Building in Bene't Street, Cambridge on 21st September 1981. At the associated business meeting, all save one delegate agreed that a society should be formed. As Eoin O'Brien and Kevin O'Malley from Dublin were present, there was a tentative suggestion that it should be The Hypertension Society of Britain and Ireland, an idea that was quickly rubbished by the Irish themselves.



So the BHS was founded with an annual subscription of £10. This initiative was seen at the time as a pioneering action; whilst because there was an International Society of Hypertension, neither the American nor the European societies had yet been created. The foundation of the BHS was greeted with some ambivalence by existing societies with overlapping interests including the British Pharmacological Society, the Cardiac Society, the British Heart Foundation and the Renal Association. Might we not steal their thunder?

The Society was primarily concerned with high-quality medical research but, over the following years, a great many initiatives were established including blood pressure measurement, manometer standardisation and grading, treatment guidelines, public information, and junior staff training. In 1991 the Nurses Hypertension Association was founded as a separate society that would meet in tandem with the BHS and, although the NHA has recently disbanded, the Society is delighted to welcome its former members into the BHS. The important role of nurses in the management of hypertension will therefore continue to be recognised.

Quite apart from the official activities of the BHS, there were efforts to establish major collaborative research projects. The highly successful ASCOT and MRC BRIGHT Studies gained immensely from support from the BHS and our own PATHWAY Study is now underway with the help of BHF funding. Also, the successful meeting of the International Society of Hypertension in Glasgow in 1996 was strongly supported by the BHS. Now in 2010 it seems inconceivable that only 30 years ago there was no British Hypertension Society. Surely it should have been started years earlier!

Professor Gareth Beevers
President, 1995-1997

GENERAL INFORMATION

Venue:

Queens' College
Cambridge, CB3 9ET.

Tel: 01223 335511 (main College number)
01223 335590 (Registration Desk during the conference)
Fax: 01223 335971 (for incoming faxes during the conference)
Website: www.queens.cam.ac.uk

CPD Accreditation:

This event, Code Number 58216, has been approved for 12 Clinical Credits for the CPD Scheme of the Federation of Royal Colleges of Physicians of the UK. Physicians wishing to claim CPD accreditation should sign the Attendance Register at the Registration Desk.

Oral Presentations:

British Hypertension Society lectures will take place in the Fitzpatrick Hall. Nurses Working Party lectures on Tuesday 14th September will take place in the Bowett Room.

Poster Presentations:

Posters will be displayed for the whole meeting. Presenters will be available for discussion during the chaired Poster Discussion Session from 10.30 – 11.30 hrs on Wednesday 15th September.

Journal of Human Hypertension:

Please note that, at the request of the authors, the following abstracts will not be published in the Journal of Human Hypertension: Oral 4A.2 and Posters PA.1 and PE.3.

Young Investigators' Prizes:

Orals: *BHS Young Investigator's Oral Prizes*
Abstracts shortlisted for these prizes will be given in Session 2 (16.30 – 18.00 hrs on Monday 13th September) and Session 3 (09.00 – 10.30 hrs on Tuesday 14th September).
The winners will be announced at the Conference Dinner on Tuesday 14th September.

Posters: *The BHS Jack Ledingham Young Investigator's Poster Prize*
Abstracts eligible for this prize (indicated with an asterisk in the Programme) will be presented in the Poster Discussion Session at 10.30 hrs on Wednesday 15th September.
The winner will be announced at the end of the meeting.

Internet Access:

Wireless internet access is available in the Angevin Room, Conservatory and Bar. Computers will be available for delegates' use in the Angevin Room.



PROGRAMME OVERVIEW

	Monday 13 th September 2010	Tuesday 14 th September 2010		Wednesday 15 th September 2010		
09.00		Session 3A BHS	Session 3B Nurses WP	Session 7 Latest News from Clinical Trials		
09.30		<i>Coffee and Exhibition</i>		<i>Coffee and Poster Discussion Session</i>		
10.00		Session 4A BHS	Session 4B Nurses WP		Session 7 continued	
10.30		<i>Registration, Coffee and Exhibition</i>	Sir George Pickering Lecture		Session 8 'How to' Session	
11.00	<i>Lunch</i>	<i>Lunch</i>		<i>Close of Meeting and Lunch</i>		
11.30		<i>Lunch</i>		<i>Close of Meeting and Lunch</i>		
12.00					Session 1 Current Issues and Clinical Cases	
12.30					Session 5A BHS	Session 5B Nurses WP
13.00	<i>Tea and Exhibition</i>		<i>Tea and Exhibition</i>			
13.30	Session 2 Submitted Abstracts	Session 6A BHS	Session 6B Nurses WP	<i>Conference Reception, Dinner and Awards</i>		
14.00		<i>Annual Business Meeting</i>				
14.30						
15.00						
15.30	<i>Dinner</i>	<i>Conference Reception, Dinner and Awards</i>		<i>Conference Reception, Dinner and Awards</i>		
16.00	<i>Tea and Exhibition</i>					
16.30	Session 6A BHS					
17.00	Session 6B Nurses WP					
17.30	<i>Annual Business Meeting</i>		<i>Conference Reception, Dinner and Awards</i>			
18.00						
18.30						
19.00						
19.30	<i>Dinner</i>		<i>Conference Reception, Dinner and Awards</i>			
20.00	<i>Debate</i>					
20.30	<i>Debate</i>					
21.00	<i>Debate</i>					
21.30	<i>Debate</i>		<i>Debate</i>			

SCIENTIFIC PROGRAMME: Monday 13th September 2010

<i>11.00 – 12.30</i>	<i>Arrival of delegates and registration</i>	<i>Registration Foyer</i>
<i>12.30 – 14.00</i>	<i>Lunch</i>	<i>Dining Hall</i>
14.00 – 16.00	SESSION 1: Current Issues and Clinical Cases	<i>Fitzpatrick Hall</i>
	Chair: M.J. Caulfield (London)	
14.00-14.15	1.1 Blood pressure variability – recent findings and implications for management P.S. Sever (London)	
14.15-14.30	Discussion	
	Clinical Cases (with interactive voting):	
14.30-14.42	1.2 A rare cause of secondary hypertension in a 20 year old woman A. Stears (Cambridge)	
14.42-14.47	Discussion	
14.47-14.52	Commentary I.B. Wilkinson (Cambridge)	

14.52-15.04	1.3	Paroxysmal hypertension V. Kapil (London)
15.04-15.09		Discussion
15.09-15.14		Commentary M. Lobo (London)
15.14-15.26	1.4	Pregnancy A. Kenyon (London)
15.26-15.31		Discussion
15.31-15.36		Commentary D. Williams (London)
15.36-15.48	1.5	Hypertension and inflammatory disease M. Freel (Glasgow)
15.48-15.53		Discussion
15.53-15.58		Commentary A. Brady (Glasgow)

16.00 – 16.30

Tea

16.30 – 18.00

SESSION 2: Submitted Abstracts

Fitzpatrick Hall

(Young Investigator's Prize)

Chair: A. Brady (Glasgow)

16.30-16.40	2.1	Genome wide association study of blood pressure extremes identifies variant in uromodulin gene associated with hypertension C.E. Hastie , S. Padmanabhan, O. Melander, T. Johnson, A.M. Di Blasio, P.B. Munroe, M.J. Caulfield, A. Zanchetti, A.F. Dominiczak (Glasgow, Malmö, Milan and London)
16.40-16.45		Discussion
16.45-16.55	2.2	New insights into the effects of bendroflumethiazide in patients with type 1 diabetes and grade one hypertension P.K. Hamilton , A. McCann, C. Agnew, R.C. McGivern, G.E. McVeigh (Belfast)
16.55-17.00		Discussion
17.00-17.10	2.3	Significantly greater ambulatory BP lowering in high renin hypertensive patients with high-dose angiotensin receptor blockade than with ACE-inhibition or direct renin inhibition U. Quinn , C. Brown, B. Maguire, B. McAdam, A.V. Stanton (Dublin)
17.10-17.15		Discussion
17.15-17.25	2.4	Discovery of genetic variants that affect blood pressure differentially according to obesity levels T. Johnson , P. Meneton, on behalf of the Global BPgen Consortium (London and Paris)
17.25-17.30		Discussion

SCIENTIFIC PROGRAMME: Monday 13th September 2010

- 17.30-17.40 2.5 Myocardial mechanism of angina in aortic stenosis identified in subjects undergoing transcatheter aortic valve implantation (TAVI)
S. Sen, N. Hadjiloizou, J. Baksi, D.P. Francis, R.A. Foale, K.H. Parker, A.D. Hughes, A. Chukwuemeka, R. Casula, I.S. Malik, G.W. Mikhail, J. Mayet, J.E. Davies (London)
- 17.40-17.45 Discussion
- 17.45-17.55 2.6 Nitroglycerin reduces central systolic pressure augmentation through dilation of muscular arteries rather than reduction in central arterial stiffness or cardiac pre-load
H. Fok, S. Powell, B. Liu, M. Seddon, B. Jiang, P. Chowienczyk (London)
- 17.55-18.00 Discussion

19.30 – 20.30 *Dinner, Dining Hall*

20.30 – 21.30 **Post-Dinner Debate** *Dining Hall*

Title: **This house believes that medical treatment for stroke has not advanced in Britain in the last 10 years**

Chair: **S.H.D. Jackson** (London)

For: **G.T. McInnes** (Glasgow)

Against: **G.A. Ford** (Newcastle)

SCIENTIFIC PROGRAMME: Tuesday 14th September 2010

07.30 – 08.45 *Breakfast* *Dining Hall*

09.00 – 10.30 **Parallel Sessions**

Session 3A <i>Fitzpatrick Hall</i> BHS Session - Submitted Abstracts (Young Investigator's Prize)	Session 3B <i>Bowett Room</i> Nurses Working Party Session
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SESSION 3A **BHS Submitted Abstracts** *Fitzpatrick Hall*

(Young Investigator's Prize)

Chair: A.M. Heagerty (Manchester)

09.00-09.10 3A.1 Haematocrit independently predicts mortality in hypertensive patients
L. Paul, M. Walters, S. Muir, A.F. Dominiczak, G. Lowe, G.T. McInnes, S. Padmanabhan (Glasgow)

09.10-09.15 Discussion

09.15-09.25 3A.2 Microarray analysis of potassium and sodium transport abnormalities in aldosterone-producing adenomas (APA)
E.A.B. Azizan, S. Newhouse, T.J. Burton, M.J. Brown (Cambridge)

09.25-09.30 Discussion

SCIENTIFIC PROGRAMME: Tuesday 14th September 2010

- 09.30-09.40 3A.3 Sleep duration predicts cardiovascular outcomes: a meta-analysis of prospective studies on 475,000 people and 16,000 events
D. Cooper, M.A. Miller, L. D'Elia, P. Strazzullo, F.P. Cappuccio (Coventry and Naples)
- 09.40-09.45 Discussion
- 09.45-09.55 3A.4 KCNQ gene expression and functional role in human arteries – a potential future therapeutic target
F.L. Ng, A.J. Davis, T.A. Jepps, S.Y. Yeung, A. Nardi, I.A. Greenwood, T. Khong (London and Ballerup)
- 09.55-10.00 Discussion
- 10.00-10.10 3A.5 Impaired aldosterone regulation and salt sensitivity in the SHRSP is restored by chromosome 2 QTL
A.K. Sampson, D. Graham, W.H. Miller, M.P. Schneider, M.W. McBride, A.F. Dominiczak (Glasgow)
- 10.10-10.15 Discussion
- 10.15-10.25 3A.6 Arterial stiffening relates to arterial calcification but not to non-calcified atheroma as determined by multimodality imaging of the aorta
M. Cecelja, M. Hussain, G. Greil, T.D. Spector, P. Chowienyczk (London)
- 10.25-10.30 Discussion

SESSION 3B

Nurses Working Party Session

Bowett Room

Chair: M. Watts (Cambridge)

- 09.00-09.10 3B.1 Evaluation of a pilot nurse led intermediate hypertension service
S. Kennedy, **F. Porteous**, G. McInnes, A. Brady, C. Morrison (Glasgow)
- 09.10-09.15 Discussion
- 09.15-09.25 3B.2 Blood pressure as a test – a study to examine its variability in nurse measured digital upper arm readings in normotensive and borderline hypertensive volunteers
M.E. Thomas, G. Hadley, W. Bartlett (Birmingham and Dundee)
- 09.25-09.30 Discussion
- 09.30-09.45 Case Presentation and discussion - 'A young lady with hypokalaemia'
B. Ogunseitani (London)
- 09.45-10.00 Case Presentation and discussion - 'Just try one more'
N. Stetson (London)
- 10.00-10.10 National Institute for Health and Clinical Excellence (NICE)
Medication Adherence Guidelines
J. Bunker (London)
- 10.10-10.30 Q&A Session on adherence issues
Expert panel: **J. Bunker, N. Stetson, W. Callister and M. Watts**

10.30 – 11.00

Coffee

SCIENTIFIC PROGRAMME: Tuesday 14th September 2010

11.00 – 11.45

Parallel Sessions

SESSION 4A: <i>Fitzpatrick Hall</i> BHS Session - Submitted Abstracts	SESSION 4B: <i>Bowett Room</i> Nurses Working Party Session - Invited Speaker
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SESSION 4A

BHS Submitted Abstracts

Fitzpatrick Hall

Chair: I.B. Wilkinson (Cambridge)

- 11.00-11.10 4A.1 A novel gene locus for blood pressure variability identified by genome-wide association scanning in the Anglo-Scandinavian Cardiac Outcome Trial
T. Johnson, S. Shaw-Hawkins, P. Howard, M. Lathrop, A. Stanton, D. Shields, N. Poulter, P.S. Sever, P.B. Munroe, M.J. Caulfield (London, Paris and Dublin)
- 11.10-11.15 Discussion
- 11.15-11.25 4A.2 A randomized controlled trial of telemonitoring and self-management in the control of hypertension: telemonitoring and self-management in hypertension (TASMINH2)
R.J. McManus, J. Mant, E.P. Bray, R. Holder, M. Jones, S.M. Greenfield, S. Bryan, P. Little, B. Williams, R. Hobbs (Birmingham, Cambridge, Vancouver, Southampton and Leicester)
- 11.25-11.30 Discussion
- 11.30-11.40 4A.3 **Winner of the High BP Research Council of Australia Early Career Oral Presentation:**
Endothelial dysfunction in aged spontaneously hypertensive rats is reversed by NADPH oxidase inhibition
M.E. Armitage, S. Wind, K. Beuerlein, K. Wingler, H.H.H.W. Schmidt (Clayton and Giessen)
- 11.40-11.45 Discussion

SESSION 4B

Nurses Working Party Session

Bowett Room

Chair: C. Carney (London)

- 11.00-11.30 4B.1 Self-monitoring of BP – an update
P. Padfield (Edinburgh)
- 11.30-11.45 Discussion

11.50 – 12.50

SIR GEORGE PICKERING LECTURE

Chair: M.J. Caulfield

Physiological studies in the renin-angiotensin system

Professor Friedrich Luft (Berlin)

Friedrich C. Luft, MD is Professor of Internal Medicine, Nephrology and Hypertension, Charité Medical Faculty, Berlin, Germany since 1992. He currently directs the Experimental and Clinical Research Center, a joint institution of the Max Delbrück Center for Molecular Medicine and the Charité. Dr. Luft was born in Berlin, but grew up in Albuquerque, New Mexico, USA. He is a graduate of Colorado College and the Jefferson Medical College in Philadelphia. After post-graduate training at the Indiana University School of Medicine and service as Captain and Flight Surgeon in the United States Army, Dr. Luft was appointed to the faculty at Indiana University, achieving the rank of Professor of both Medicine and Pharmacology. He was also Guest Professor at Heidelberg University and Professor at Friedrich Alexander University in Erlangen-Nürnberg.



The American Board of Internal Medicine has certified Dr. Luft in internal medicine, nephrology, and critical care medicine. Dr. Luft's research covers several aspects of the cardiovascular and renal systems, molecular genetics, and adipose tissue metabolism. Dr. Luft has received various awards, including the Ernest Starling Award from the American Physiological Society, the Anthony Raine Award from the International Society of Nephrology, the Bjorn Folkow Award from the European Society of Hypertension, the Richard Bright Award from the American Society of Hypertension, the Robert Tigerstedt Award from the International Society of Hypertension, the R. Douglas Wright Award from the High Blood Pressure Research Council of Australia, the Novartis Award from the American Heart Association Council for High Blood Pressure Research, and the Franz-Volhard Medal from the Gesellschaft für Nephrologie. Dr. Luft also lists numerous professional society memberships including the American College of Physicians (Fellow), the Royal College of Physicians (Edinburgh), American Heart Association (Fellow), the American Society of Nephrology (Fellow), National Kidney Foundation, and the American Society of Hypertension. Dr. Luft is also a member of the German National Academy, *Gesellschaft der Leopoldina*.

13.00 – 14.15

Lunch, Dining Hall

14.15 – 15.45

Parallel Sessions

SESSION 5A:	<i>Fitzpatrick Hall</i>	SESSION 5B:	<i>Bowett Room</i>
BHS Session – Submitted Abstracts		Nurses Working Party Session - Invited Speakers	

SESSION 5A

BHS Submitted Abstracts

Fitzpatrick Hall

Chair: G. McVeigh (Belfast)

- | | | |
|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.15-14.25 | 5A.1 | Effect of modest salt reduction on skin capillary rarefaction in white, black and Asian individuals with mild hypertension
F.J. He , M. Marciniak, N.D. Markandu, T.F. Antonios, G.A. MacGregor (London) |
| 14.25-14.30 | | Discussion |
| 14.30-14.40 | 5A.2 | Meta-analyses of the human CVD55 Bead chip discovers new blood pressure genes
P.B. Munroe on behalf of the Human CVD55 Blood Pressure Consortium (London) |
| 14.40-14.45 | | Discussion |
| 14.45-14.55 | 5A.3 | Altering plasma sodium concentration rapidly changes blood pressure during haemodialysis
R.J. Suckling , P. Swift, N. Markandu, F. He, G.A. MacGregor (London) |
| 14.55-15.00 | | Discussion |

SCIENTIFIC PROGRAMME: Tuesday 14th September 2010

- 15.00-15.10 5A.4 11C-metomidate PET-CT scanning: a non-invasive method to lateralize aldosterone secretion in patients with primary hyperaldosteronism and small adrenal adenomas
T.J. Burton, N. Bird, D. Soloviev, K. Balan, S. Bray, R. Smith, I. Mackenzie, M. Elkhawad, M. Gurnell, M.J. Brown (Cambridge)
- 15.10-15.15 Discussion
- 15.15-15.25 5A.5 Evidence that wavelet analysis of blood velocity waveforms provides information regarding downstream microvessels: a study of the retrobulbar circulation in type 1 diabetes
P.K. Hamilton, A. McCann, C. Agnew, V. McClenaghan, R.C. McGivern, G.E. McVeigh (Belfast)
- 15.25-15.30 Discussion
- 15.30-15.40 5A.6 Intensive blood pressure lowering increases cerebral blood flow in older subjects with hypertension
G.A. Ford, D. Tryambake, J. He, M. Firbank, J.T. O'Brien, A. Blamire (Newcastle)
- 15.40-15.45 Discussion

SESSION 5B

Nurses Working Party Session

Bowett Room

Chair: N. Stetson (London)

- 14.15-14.25 5B.1 The multidisciplinary team and hypertension in the U.K.
M.J. Caulfield BHS President
- 14.25-14.55 5B.2 New therapies in hypertension - renal denervation
M. Saxena (London)
- 14.55-15.05 Discussion
- 15.05-15.35 5B.3 Use of multi-drug pills in reducing cardiovascular events
S. Thom (London)
- 15.35-15.45 Discussion

15.45 – 16.15 *Tea*

16.15 – 17.25 **Parallel Sessions**

SESSION 6A:
Fitzpatrick Hall

BHS Session - Invited Speakers

SESSION 6B:
Bowett Room

Nurses Working Party Session – Invited Speaker

SCIENTIFIC PROGRAMME: Tuesday 14th September 2010

SESSION 6A

BHS Invited Speakers

Fitzpatrick Hall

Chair: F.P. Cappuccio (Coventry)

- | | | |
|-------------|------|--------------------------------------------------------------------------------------------|
| 16.15-16.40 | 6A.1 | 24 hour blood pressure monitoring as a predictor of risk
P. Verdecchia (Perugia) |
| 16.40-16.50 | | Discussion |
| 16.50-17.15 | 6A.2 | The role of endothelin in hypertension
D. Webb (Edinburgh) |
| 17.15-17.25 | | Discussion |

SESSION 6B

Nurses Working Party Session

Bowett Room

Chair: A. De Vries (Aberdeen)

- | | | |
|-------------|------|-----------------------------------------------------------------------------------------------------------|
| 16.15-16.45 | 6B.1 | Hypertension in adolescents
I.B. Wilkinson (Cambridge) |
| 16.45-16.55 | | Discussion |
| 16.55-17.15 | 6B.2 | Evaluation and discussion of presentations and application to practice.
Suggested topics for next year |

17.25 – 18.15 **Annual Business Meeting** (BHS Members only)

Fitzpatrick Hall

19.30 Reception

20.00 Conference Dinner and Awards

SCIENTIFIC PROGRAMME: Wednesday 15th September 2010

07.30 – 08.45 Breakfast

Dining Hall

09.00 – 10.30 **SESSION 7: Latest News from Clinical Trials**

Fitzpatrick Hall

Chair: A.D. Watson (Dundee)

- | | | |
|-------------|-----|-------------------------------------------------------------|
| 09.00-09.10 | 7.1 | ROADMAP
A. Heagerty (Manchester) |
| 09.10-09.15 | | Discussion |
| 09.15-09.25 | 7.2 | RE-LY
A. Brady (Glasgow) |
| 09.25-09.30 | | Discussion |
| 09.30-09.40 | 7.3 | New trials in type 2 diabetes
J. Petrie (Glasgow) |
| 09.40-09.45 | | Discussion |

SCIENTIFIC PROGRAMME: Wednesday 15th September 2010

09.45-09.55	7.4	Genes for blood pressure M.J. Caulfield (London)
09.55-10.00		Discussion
10.00-10.20	7.5	Renal denervation – a new approach in hypertension M. Lobo (London)
10.20-10.30		Discussion

10.30 – 11.30

Coffee and Poster Discussion Session

Poster Group

PA	Clinical Trials and Studies I
PB	BP Measurement and Haemodynamics
PC	Cardiovascular Physiology and Pharmacology
PD	Basic Science / Haemodynamics 2
PE	Endocrine and Metabolic Studies / Clinical Trials and Studies II

Chair

J. Potter (Norwich)
S.H.D. Jackson (London)
J.K. Cruickshank (Manchester)
J. Petrie (Glasgow)
A.D. Hughes (London)

11.30 – 12.00

SESSION 7: Latest News from Clinical Trials continued

Fitzpatrick Hall

Chair: S.H.D. Jackson (London)

11.30 – 11.40	7.6	PATHWAY M.J. Brown (Cambridge)
11.40 – 11.45		Discussion
11.45 – 11.55	7.7	ACCELERATE T. MacDonald (Dundee)
11.55 – 12.00		Discussion

12.00 – 13.00

SESSION 8: 'How to' Session

Fitzpatrick Hall

Chair: S.H.D. Jackson (London)

12.00-12.20	8.1	How to treat pulmonary hypertension M. Wilkins (London)
12.20-12.30		Discussion
12.30-12.50	8.2	How to manage patients with pheochromocytomas M.J. Brown (Cambridge)
12.50-13.00		Discussion

13.00

Award: The BHS Jack Ledingham Young Investigator's Poster Prize

Close of Meeting and Lunch

POSTER PRESENTATIONS

* Posters marked with an asterisk are eligible to be considered for The BHS Jack Ledingham Young Investigator's Poster Prize

Posters PA

Clinical Trials and Studies I

Chair: J. Potter (Norwich)

- PA.1 Intensive blood pressure lowering in older people: feasibility, tolerability and effects on quality of life
G.A. Ford, D. Tryambake, J. Davis, S. Parry, J.T. O'Brien, S.H.L. Thomas (Newcastle)
- PA.2 Urinary proteomic diagnosis of coronary artery disease: identification and clinical validation in 623 subjects
C. Delles, E. Schiffer, C. von zur Mühlen, K. Peter, P. Rossing, H.H. Parving, J.A. Dymott, U. Neisius, L.U. Zimmerli, J.K. Snell-Bergeon, D.M. Maahs, R.E. Schmieder, H. Mischak, A.F. Dominiczak (Glasgow, Hannover, Freiburg, Melbourne, Gentofte, Copenhagen, Aurora and Erlangen)
- PA.3 Do obese individuals with hypertension have more difficulty to control blood pressure and more end-organ damage than their non-obese counterparts?
M.D. Jesky, C. Ayers, R. Taylor, M.E. Thomas, I. Dasgupta (Birmingham)
- PA.4 The time course of systolic blood pressure in the MRC Older Adults Trial
M. Carr, R. McNamee, J.X. Pan, G. Dunn, **J.K. Cruickshank** (Manchester)

Posters PB

BP Measurement and Haemodynamics I

Chair: S.H.D. Jackson (London)

- PB.1 Meta regression analysis of aortic reflection timing to locate the site of reflection and to identify its relationship with arterial stiffness and age in 8336 subjects
M. Shanmuganathan, A.J. Baksi, D.P. Francis, T.A. Treibel, T. Tillin, K. Parker, A.D. Hughes, J. Mayet, J.E. Davies (London)
- PB.2 25-hydroxy vitamin D concentration is independently associated with accelerated conduit vessel arteriosclerosis in South Asians
D.R. Webb, K. Khunti, P. Lacy, L.J. Gray, B. Williams, M.J. Davies (Leicester)
- PB.3 Exercise has sustained effects to reduce central arterial pulse wave velocity independent of blood pressure reduction in subjects with high normal resting blood pressure
S.E. Brett, K. Elliott, P.J. Chowienzyk (London)
- PB.4* A novel method to identify microvascular abnormalities from analysis of blood flow velocity waveforms
C.E. Agnew, A. McCann, C.J. Lockhart, P.K. Hamilton, G.E. McVeigh, R.C. McGivern (Belfast)
- PB.5 Pressure under blood pressure cuffs in vitro is non-uniform, related to sub-cuff compliance and shows hysteresis
S. Naqvi, T. Dias, **P.S. Lewis** (Manchester, Nottingham and Stockport)

Posters PC

Cardiovascular Physiology and Pharmacology

Chair: J.K. Cruickshank (Manchester)

- PC.1* Different effects of left ventricular hypertrophy secondary to hypertension and aortic stenosis on wave generation in the coronary arteries
N. Hadjiloizou, J. Davies, J. Baksi, I. Malik, S. Shai, J. Aguado-Sierra, R. Foale, K. Parker, D. Francis, A.D. Hughes, J. Mayet (London)
- PC.2 Relationships between sleep duration and von Willebrand factor, fibrinogen and factor VII: Whitehall II Study
M.A. Miller, N.B. Kandala, M. Kumari, M.G. Marmot, **F.P. Cappuccio** (Coventry and London)

POSTER PRESENTATIONS, continued

- PC.3 A comparison of the Vicorder apparatus with SphygmoCor device for the non-invasive assessment of aortic blood pressure: an invasive validation study
G. Pucci, J. Cheriyan, A. Hubsch, S.S. Hickson, T. Watson, G. Schillaci, I.B. Wilkinson, C.M. McEniery (Perugia and Cambridge)
- PC.4* Comparative study of antihypertensive drug regimens and long-term outcomes in the Glasgow Blood Pressure Clinic
W.S. Li, L. Paul, M. Walters, S. Muir, A.F. Dominiczak, G.T. McInnes, S. Padmanabhan (Glasgow)

Posters PD

Basic Science / Haemodynamics II

Chair: J. Petrie (Glasgow)

- PD.1* Endothelial function relates more closely to renin status than to self-defined ethnicity
K. Connell, A. Donald, P. Chowienczyk (London)
- PD.2* Flow-mediated dilatation of the brachial artery is a poorly reproducible indicator of microvascular function in type 1 diabetes mellitus
P.K. Hamilton, C.J. Lockhart, A. McCann, C. Agnew, R.C. McGivern, G.E. McVeigh (Belfast)
- PD.3* Wavelet analysis of blood velocity waveforms identifies abnormalities not detected using flow-mediated dilatation in the forearms of patients with grade 1 hypertension
P.K. Hamilton, A. McCann, C. Agnew, V. McClenaghan, R.C. McGivern, G.E. McVeigh (Belfast)
- PD.4 Descending aortic compared with aortic arch pulse wave velocity stratifies ethnic-specific cardiovascular risk, improving on pressure-related estimates
M. Rezai, B. Cowan, A. Young, N. Sherratt, J.D. Finn, F. Wu, **J.K. Cruickshank** (Manchester and Auckland)
- PD.5 The effects of soft tissue compliance on differences in systolic blood pressure measured by auscultation and oscillometry
K. Java, J. Cowan, K.W. Yee, **P.S. Lewis** (Manchester and Stockport)

Posters PE

Endocrine and Metabolic Studies / Clinical Trials and Studies II

Chair: A.D. Hughes (London)

- PE.1 Insulin resistance by euglycaemic clamp predicts rise in blood pressure over three years in healthy European adults
J. Petrie, B. Balkau, E. Ferrannini, A. Natali (Glasgow, Paris and Pisa)
- PE.2 Modest reduction in salt intake lowers blood pressure and urinary albumin excretion in individuals with impaired glucose tolerance and type 2 diabetes
R.J. Suckling, F. He, N. Markandu, G.A. MacGregor (London)
- PE.3 Excess pressure is higher in atenolol-treated individuals and independently predicts cardiovascular events in the CAFE sub-study of ASCOT
J.E.R. Davies, T. Tillin, A. Malaweera, P.S. Lacy, J.K. Cruickshank, A. Stanton, D. Collier, H. Thurston, B. Williams, K.H. Parker, S.A. Thom, A.D. Hughes (London, Leicester, Manchester and Dublin)
- PE.4 HiLo – a health services intervention study: methods and interim results on the first 2,000 patients at 1 year
D.J. Collier, J. Robson, R. Scott, C.M. Will, S.E. Eldridge, C.J. Griffiths, E. Badrick, M. Saxena, S. Richards, M.J. Caulfield (London and Brighton)



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