Artery 13

Thursday 17th - Saturday 19th October 2013
The Mermaid Conference and Events Centre, London, UK

Final Programme
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Supported by an educational grant from Servier

![Servier Logo](servier.png)

ARTERY 13 is endorsed by

![ESH Logo](ESH.png)

European Society of Hypertension
ARTERY EXECUTIVE COMMITTEE

President: Professor Luc Van Bortel  Ghent  Belgium
Vice-President: Associate Professor Charalambos Vlachopoulos  Athens  Greece
Secretary: Professor Giuseppe Schillaci  Perugia  Italy
Treasurer: Professor Pierre Boutouyrie  Paris  France

Ordinary Members:
- Dr Johannes Baulmann  Lübeck  Germany
- Dr Francesco Mattace Raso  Rotterdam  The Netherlands
- Dr Thomas Weber  Wels  Austria

Ex-officio Member
- Professor John Cockcroft  Cardiff  UK

ARTERY COUNCIL MEMBERS

A Laucevicius, Vilinus, Lithuania
S Laurent, Paris, France
C McEniery, Cambridge, UK
A Pain, Brescia, Italy
C Palombo, Pisa, Italy
B Pannier, Fleury-Mérogis, France
A Protogerou, Athens, Greece
P Segers, Ghent, Belgium
C Stehouwer, Maastricht, The Netherlands
C Thuilliez, Rouen, France
N Winberg, Frederiksborg, Denmark
I Wilkinson, Cambridge, UK
F Zannad, Toul, France

ARTERY 13 LOCAL ORGANISING COMMITTEE

Professor Phil Chowienczyk
Professor of Cardiovascular Clinical Pharmacology, King’s College & St Thomas’ & Guy’s Hospitals, King’s Health Partners London

Professor John Kennedy Cruickshank
Professor in Cardiology, Wales Heart Research Institute, Cardiff

Professor Alun D Hughes
Professor of Clinical Pharmacology, Cardiovascular Sciences, NHLI Division, Faculty of Medicine, Imperial College London

Dr Carmel McEniery
Senior Research Associate, University of Cambridge

Professor Ian B Wilkinson
Reader, BHF W E Parkes Senior Clinical Research Fellow and Honorary Consultant, University of Cambridge, Cambridge University Hospitals NHS Foundation Trust

SECRETARIAT

Hampton Medical Conferences Ltd.
Rapier House, 4-6 Crane Mead, Ware, Hertfordshire, SG12 9PW, UK
Tel: +44 (0) 1920 885162
Fax: +44 (0) 870 900 7793
Email: artery@hamptonmedical.com
Web: www.arterysociety.org  www.hamptonmedical.com

WELCOME

Dear Colleague,

It is our pleasure to welcome you to The Mermaid Conference and Events Centre in London, for ARTERY 13. This modern building overlooking the Thames is just a few hundred metres from St Paul’s Cathedral and other historic buildings in the heart of London.

The 2013 meeting follows on from the previous series of highly successful ARTERY meetings, which have established a tradition in the field. ARTERY 13 will cover an expanded list of topics through keynote lectures, abstract presentations and industry led symposia. This year, special emphasis will be put on structural and functional imaging of the arterial tree.

Building on the success of previous meetings, we are delighted to announce that we have received again a high number of abstracts this year. These encompass a very broad range of topics including biomechanics, preclinical research and experimental studies, epidemiology, methodology, and clinical studies. As in previous years we strongly encourage all attendees to engage in scientific debate and critique with presenters and colleagues during the sessions. Furthermore, the meeting is an ideal opportunity to meet and to exchange experiences with other investigators, and we have dedicated the first evening to young investigators networking.

The ARTERY Society aims to be the bridge between all societies dealing with arterial structure and physiology, fostering exchanges of ideas and novel research. This year, we shall share sessions with representatives from the European Society of Cardiology, the North American ARTERY Society, the European Society of Hypertension and the Pulse of Asia.

On behalf of the Society we would like to thank Servier who has made this event possible through an educational grant, and also our sponsors and exhibitors: Alam Medical, Atcor Medical, Axelife, BPLab, Esaote, Fukuda Denshi, IEM GmbH, Medexpert Ltd, Omron Healthcare Co., Ltd. and Panasonic Healthcare.

We hope that delegates will be attracted by the scientific value of the conference and by the atmosphere in our vibrant capital city.

Once again, the Society will provide prestigious prizes for the best oral presentation by a young investigator and best poster. This year the Career Development Lectures will be given by Riaz Akhtar and Alban Redheuil. All awards will be presented during the Conference Dinner on Friday evening. All accepted abstracts will be available electronically at the conference and published in the official journal of the Society, ARTERY Research, in December 2013.

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A-Z GENERAL INFORMATION

ABSTRACTS

Abstracts for ARTERY 13 have been loaded onto a memory stick which you will find in your delegate pack. The submitted abstracts are also available to download from the homepage of the conference website http://www.arterysociety.org/meeting/index.php. We are pleased to provide laptops in the Mezzanine area to facilitate the viewing of abstracts as well as offering internet access. Accepted oral and poster abstracts will also be published in the December 2013 issue of the Society’s Journal, ARTERY Research.

ACCREDITATION

The European Board for Accreditation in Cardiology (EBAC) has awarded 11 CME credit hours to ARTERY 13.

Thursday 17th October  3 CME credits
Friday 18th October  5 CME credits
Saturday 19th October  3 CME credits

Delegates wishing to claim CPD Accreditation should sign the Attendance Register on each day they attend.

AWARDS AND PRIZES

The Awards Ceremony will take place during the Conference Dinner on Friday 18th October. Prizes will be awarded for Best Young Investigator Presentation, Career Development Lecture, Best Poster and Best Paper submitted to ARTERY Research over the past year.

Awards will also be presented to young researchers Anne Sofie Dam Laursen (Gentofte, Denmark) Chen Yen Ooi (Cambridge, UK) and Jeire Steinbuch (Maastricht, The Netherlands) who have been selected to receive bursaries kindly supported by a donation in memory of ‘Brigitte Laloux’. Brigitte was head research nurse, then engineer, in the laboratory of Professor Laurent for more than 2 years and during this time she helped many young foreign scientists visiting the laboratory. It is the wish of Brigitte’s family that her legacy lives on through supporting the attendance of young researchers at ARTERY meetings.

BADGES

Name badges must be worn at all times throughout the meeting. For reasons of security delegates not wearing a name badge will be denied access to Scientific Sessions.

CLOAKROOM

A staffed cloakroom is available, in the main foyer of the venue, free of charge to delegates. Delegates may also store luggage in the cloakroom on Thursday and Saturday.

CONFERENCE VENUE – FULL ADDRESS

The Mermaid Conference and Events Centre
Puddle Dock, Blackfriars, London, EC4V 3DB, United Kingdom

EXHIBITION

The exhibition is located in the Newgate Suite. Please ensure you take time to visit and support the companies exhibiting at ARTERY 13.

PROGRAMME OVERVIEW

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<th>Thursday 17th October 2013</th>
<th>Friday 18th October 2013</th>
<th>Saturday 19th October 2013</th>
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<tbody>
<tr>
<td>07.30 - 08.30</td>
<td>Registration &amp; Coffee</td>
<td>Registration &amp; Coffee</td>
<td>Registration &amp; Coffee from 08.15</td>
</tr>
<tr>
<td>08.30 - 09.00</td>
<td>Registration, Coffee &amp; Poster Preview</td>
<td>Oral Session 3</td>
<td>Oral Session 5</td>
</tr>
<tr>
<td>09.00 - 09.30</td>
<td>Welcome Address</td>
<td>Young Investigator Oral Presentations</td>
<td>Invited Lecture and Free Communications Oral Presentations</td>
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<tr>
<td>09.30 - 10.00</td>
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<td>08.30 - 09.45</td>
<td>09.00 - 10.35</td>
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<tr>
<td>10.00 - 10.30</td>
<td>Special Guest Lecture M Mayr</td>
<td>Coffee, Exhibition &amp; Poster Preview</td>
<td>Coffee &amp; Exhibition</td>
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<tr>
<td>10.30 - 11.00</td>
<td>Satellite Symposium – organised and funded by Servier Arteries and hypertension: from single to triple therapy 11.15 - 12.15</td>
<td>10.15 - 11.15</td>
<td>CONTROVERSY: ‘Forget arterial stiffness and concentrate on blood pressure’</td>
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<td>11.00 - 11.30</td>
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<td>Manufacturer Demonstrations in parallel</td>
<td>Pro: G Parati</td>
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<tr>
<td>11.30 - 12.00</td>
<td>Registration, Coffee &amp; Poster Preview</td>
<td>Lunch, Exhibition &amp; Poster Viewing</td>
<td>Contra: C Vlachopoulos</td>
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<tr>
<td>12.00 - 12.30</td>
<td>Welcome Address</td>
<td>12.15 - 13.15</td>
<td>11.35 - 12.35</td>
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<tr>
<td>12.30 - 13.00</td>
<td>Opening Lecture R Botnar</td>
<td>Oral Session 1</td>
<td>Lifetime Achievement Award</td>
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<td>13.00 - 13.30</td>
<td>Oral Session 1</td>
<td>Young Investigator Oral Presentations</td>
<td>Presented to: S Franklin</td>
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<tr>
<td>13.30 - 14.00</td>
<td>Young Investigator Oral Presentations</td>
<td>13.00 - 14.15</td>
<td>12.35 - 12.45</td>
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<td>14.00 - 14.30</td>
<td>Career Development Lectures</td>
<td>Oral Session 4</td>
<td>Concluding Remarks</td>
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<td>14.30 - 15.00</td>
<td>A Redheuil</td>
<td>Young Investigator Oral Presentations</td>
<td>12.45 - 12.50</td>
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<tr>
<td>15.00 - 15.30</td>
<td>Tea, Exhibition &amp; Poster Viewing</td>
<td>Oral Presentations</td>
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<td>15.30 - 16.00</td>
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<td>14.15 - 15.30</td>
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<tr>
<td>16.00 - 16.30</td>
<td>Oral Session 2</td>
<td>Free Communication Oral Presentations</td>
<td>FOCUS: Functional Imaging</td>
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<td>16.30 - 17.00</td>
<td>Free Communication Oral Presentations</td>
<td>15.25 - 16.35</td>
<td>IB Wilkinson</td>
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<td>17.00 - 17.30</td>
<td>Manufacturer Presentations</td>
<td>Tea &amp; Exhibition</td>
<td>C de Korte</td>
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<td>17.30 - 18.00</td>
<td>Fukuda Denshi &amp; Omron</td>
<td>15.20 - 16.50</td>
<td>15.30 - 16.20</td>
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<td>18.00 - 18.30</td>
<td>Chaired Poster Discussion Sessions</td>
<td>Chaired Poster Discussion Sessions</td>
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<td>18.30 - 19.00</td>
<td>P1, P2 &amp; P3</td>
<td>P4, P5 &amp; P6</td>
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<td>19.15 - 21.15</td>
<td>Young Investigator Network Evening</td>
<td>Reception &amp; Conference Dinner</td>
<td>16.50 - 18.00</td>
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<td></td>
<td>Punch Tavern</td>
<td>Museum of London</td>
<td>19.00</td>
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MOUNTING AND REMOVAL OF POSTERS
Posters P1-P2-P3: Thursday
Posters on Thursday should be mounted by 12.25 hrs and removed by 19.30 hrs the same day.

Posters P4-P5-P6: Friday
Posters on Friday should be mounted by 08.30 hrs and removed by 11.35 hrs on Saturday 19th October.

QUESTIONS TO SPEAKERS
During discussion periods delegates who wish to pose a question should raise their hand clearly and wait to be acknowledged by the Chairperson. Please do not ask a question until you have been given a microphone.

REGISTRATION DESK
The conference organisers will be located at the Registration Desk and will be pleased to assist you with queries throughout the conference.

The Registration Desk will be open at the following times:
Thursday 17th October: 11.30 - 19.15 hrs
Friday 18th October: 07.30 - 18.15 hrs
Saturday 19th October: 08.15 - 13.30 hrs
Registration Desk Telephone Number: +44 (0) +44 (0) 7885 477674

SPEAKER PREVIEW
All oral presenters should meet with the audio-visual technician at the back of the auditorium at the earliest opportunity and at the very latest two hours before the start of the session in which the presentation will take place. This is in order to hand over and check their presentations and ensure they are happy with the equipment available for their talk.
MANUFACTURER SESSIONS

MANUFACTURER PRESENTATIONS AND DEMONSTRATIONS
Fukuda Denshi and Omron Healthcare Co. Ltd will each give a 20 minute presentation in the Auditorium on Thursday 17th October from 16.40 - 17.20 hrs.

Demonstrations of their products will take place simultaneously on Friday 18th October in the Queenhithe and Aldgate/Bishopsgate from 12.15 - 13.15 hrs. These sessions will give you the opportunity to look at the devices more closely and to ask the company representatives specific questions in an informal setting.

PRESENTATIONS Thursday 17th October 16.40 - 17.20 hrs
AUDITORIUM
16.40 - 17.00 hrs
Fukuda Denshi
The principle of CAVI and its clinical applications
Professor Kohji Shirai (Sakura Medical Centre, Toho University, Japan)
17.00 - 17.20 hrs
Omron Healthcare Co.,Ltd
Late systolic blood pressure to estimate central hemodynamics / HEM-9000AI
Dr Kenji Takazawa (Tokyo Medical University, Hachioji Medical Center, Japan)

DEMONSTRATIONS - (in parallel) Friday 18th October 12.15 -13.15 hrs
QUEENHITHE
Fukuda Denshi
Demonstration and Q & A
Professor Kohji Shirai will be available to answer questions and a demonstration of the Vasera machine will be carried out.
ALDGATE/BISHOPSGATE
Omron Healthcare Co.,Ltd
Live demonstration of the HEM-9000AI and VP-1000 presented by Iwao Kojima.
Servier is involved in research and development, manufacture and marketing of ethical pharmaceuticals. It is a private, independent pharmaceutical company, led by the founder Dr Jacques Servier.

Cardiovascular diseases represent the most important therapeutic area for Servier. In this area, the company has developed different drugs for the treatment of hypertension, heart failure, and cardiac ischemia, such as Procoralan (ivabradine), Coversyl (perindopril), Natrilix SR (indapamide), and Vastarel MR (trimetazidine) and fixed-combination antihypertensives such as Preterax (perindopril/indapamide) and Coveram (perindopril/amlodipine).
### THURSDAY 17th OCTOBER 2013

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<tr>
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<tr>
<td>11:30</td>
<td>Registration, Coffee and Poster Preview</td>
<td>NEWGATE SUITE, GALLERY &amp; UPPER RIVER ROOM</td>
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<tr>
<td>12.25</td>
<td>Welcome Address</td>
<td>AUDITORIUM</td>
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<tr>
<td></td>
<td>P Chowienczyk (London, UK), Chair of Local Organising Committee</td>
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<td></td>
<td>L Van Bortel (Ghent, Belgium), President of ARTERY</td>
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<tr>
<td>12.30 -13.00</td>
<td>Opening Lecture</td>
<td>AUDITORIUM</td>
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<td></td>
<td>Chairperson: L Van Bortel (Ghent, Belgium)</td>
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<tr>
<td></td>
<td>Imaging of the cardiovascular system</td>
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<td>R Botnar (London, UK)</td>
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<tr>
<td>13.00 -14.15</td>
<td>Oral Session 1 In association with the ESC Working Group on Peripheral Circulation</td>
<td>AUDITORIUM</td>
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<tr>
<td></td>
<td>Chairpersons: T Weber (Wels, Austria), JK Cruickshank (London, UK)</td>
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<tr>
<td>13.00 -13.15</td>
<td>Comparison of various methods for the estimation for aortic characteristic impedance in time domain from velocity-encoded magnetic resonance and attenuation tomometry data</td>
<td>AUDITORIUM</td>
</tr>
<tr>
<td></td>
<td>E Bellache, N Kachoua, I Dargiota, A de Cesare, M Bensalah, A Redheuil, E Mousseaux (Paris, France)</td>
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<tr>
<td>13.15 -13.30</td>
<td>Assessment of diastolic function in paediatric patients by means of wave intensity analysis derived from cardiovascular magnetic resonance imaging</td>
<td>AUDITORIUM</td>
</tr>
<tr>
<td></td>
<td>G Biggio, H Ntsinjana, R Chung, S Schievano, P Ciliberti, KH Parker, AM Taylor (London, United Kingdom)</td>
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</tr>
<tr>
<td>13.30 -13.45</td>
<td>Spatial inhomogeneities in intima-media thickness of the common carotid artery associated with the degree of stenosis in the internal carotid artery</td>
<td>AUDITORIUM</td>
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<tr>
<td></td>
<td>J Steinbuch, MTB Truiman, APG Hoeks, WH Mess (Maastricht, The Netherlands)</td>
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<tr>
<td>13.45 -14.00</td>
<td>Blood pressure levels are the sole determinant of diffuse myocardial fibrosis in hypertensive patients</td>
<td>AUDITORIUM</td>
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<tr>
<td></td>
<td>A Rosenbaum, N Kachenoura, A Redheuil, A Deessare, V Filleneue, X Girerd, P Cluzel (Paris, France)</td>
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<tr>
<td>14.00 -14.15</td>
<td>Effects of acute bouts of endurance exercise on retinal vessel diameters</td>
<td>AUDITORIUM</td>
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<tr>
<td></td>
<td>M Nussbaumer, M Fischer, J Schäfer, L Donath, O Faude, L Zahnner, A Schmidt-Truckssäss, H Hanssen (Basel, Switzerland)</td>
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<tr>
<td>14.15 -14.55</td>
<td>Career Development Lectures In association with the North American Artery Society</td>
<td>AUDITORIUM</td>
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<tr>
<td></td>
<td>Chairpersons: G Mitchell (Norwood, USA), P Chowienczyk (London, UK)</td>
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<tr>
<td>14.15 -14.30</td>
<td>Arterial stiffening across multiple length scales</td>
<td>AUDITORIUM</td>
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<td>R Akhtar (Liverpool, UK)</td>
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<td>14.35 -14.55</td>
<td>Cardiovascular aging: insights from magnetic resonance imaging</td>
<td>AUDITORIUM</td>
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<td></td>
<td>A Redheuil (Paris, France)</td>
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<tr>
<td>14.55 -15.20</td>
<td>Tea, Exhibition &amp; Poster Viewing</td>
<td>AUDITORIUM</td>
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<tbody>
<tr>
<td>15.25 - 16.35</td>
<td>Oral Session 2 Free Communication Oral Presentations</td>
<td>NEWGATE SUITE, GALLERY &amp; UPPER RIVER ROOM</td>
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<tr>
<td></td>
<td>In association with the North American Artery Society</td>
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<td></td>
<td>Chairpersons: F Mattace Rao (Rotterdam, The Netherlands), R Townsend</td>
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<tr>
<td></td>
<td>(Philadelphia, USA)</td>
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<tr>
<td>15.25 -15.35</td>
<td>2.1 Ethnic differences in associations between carotid IMT, coronary artery calcification and cerebrovascular disease: A population-based study of Europeans, South Asians and African Caribbeans</td>
<td>AUDITORIUM</td>
</tr>
<tr>
<td></td>
<td>F Tatin, K March, J Haseman, C Park, N Beauchamp, D Shibata, A Wright, A Hughes, N Chaturvedi (London, United Kingdom), Seattle, United States of America</td>
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<tr>
<td>15.35 -15.45</td>
<td>2.2 Transfer function-derived central pressure and cardiovascular events: The Framingham Heart Study</td>
<td>AUDITORIUM</td>
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<tr>
<td></td>
<td>DF Mitchell, S-J Hwang, MJ Larsson, NM Hamburg, EJ Benjamin, RS Vasan, D Levy, JA Vita (Norwood, Framingham, Bethesda and Boston, United States of America)</td>
<td></td>
</tr>
<tr>
<td>15.45 -15.55</td>
<td>2.3 Pulse Wave Velocity in a large populational study. Preliminary results Brazilian longitudinal study of adult health (ELSA-Brasil)</td>
<td>AUDITORIUM</td>
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<td></td>
<td>RS Cunha, GL Rodrigues, PA Lutofu, JG Mill (Vitoria and Sao Paulo, Brazil)</td>
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</tr>
<tr>
<td>15.55 - 16.05</td>
<td>2.4 Serum biomarkers and retinal vessel diameters in school children</td>
<td>AUDITORIUM</td>
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<td>H Hanssen, M Siegrist, M Neidig, C Lammel, B Haller, KG Parhofer, M Vogeser, M Halle (Basel, Switzerland; Munich, Germany)</td>
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<td>16.05 -16.15</td>
<td>2.5 Aortic-brachial stiffness mismatch and mortality in dialysis patients</td>
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<td>C Forrier, F Mac-Way, SA De Serres, K Marquis, R Lariviere, MS Utscu, V Couture, M Agharazii (Quebec City, Canada)</td>
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<td>16.15 - 16.25</td>
<td>2.6 The nonlinear components of pulse pressure: novel markers for arterial stiffening with prognostic significance</td>
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<td>B Gavish, M Bursztyn (Eshtaol and Jerusalem, Israel)</td>
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<td>16.25 -16.35</td>
<td>2.7 A health economic evaluation on the cost effectiveness of hypertension management guided by central blood pressure measurement: analysis of the BPOGUIDE study</td>
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<td>SP O’Malley, JE Sharman (Hobart and Sydney, Australia)</td>
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<td>16.35 - 16.40</td>
<td>Comfort Break</td>
<td>AUDITORIUM</td>
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<td>16.40 -17.20</td>
<td>Manufacturer Presentations In association with the North American Artery Society</td>
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<td>Chairpersons: G Mitchell (Norwood, USA), P Chowienczyk (London, UK)</td>
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<td>16.40 -17.00</td>
<td>3.1 The principle of CAVI and its clinical applications</td>
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<td>Professor Kohji Shirai (Sakura Medical Centre, Toho University, Japan)</td>
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<td>17.00 -17.20</td>
<td>Late systolic blood pressure to estimate central hemodynamics / HEM-9000AI</td>
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<td>Dr Kenji Takazawa (Tokyo Medical University, Hachioji Medical Center, Japan)</td>
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| THURSDAY 17th OCTOBER 2013 | 17.30 - 19.00 | Chaired Poster Discussion Session and Welcome Reception  
P1 - Clinical Science  
P2 - Methods  
P3 - Population Science  
| 19.15 | Young Investigator Network Evening  
The Punch Tavern, Fleet Street |
| FRIDAY 18th OCTOBER 2013 | 07.30 | Registration & Coffee |
| 08.30 - 09.45 | Oral Session 3  
Young Investigator Oral Presentations  
In association with the European Society of Hypertension Working Group on Vascular Structure and Function  
3.1 Outcome-driven thresholds for ambulatory pulse pressure in 939 people recruited from 11 populations  
Y-M Gu, T Hansen, K Björklund-Bodegård, K Asayama, JA Staessen on behalf of the IDACO investigators (Leuven, Belgium; Copenhagen, Denmark; Uppsala, Sweden; Sendai, Japan and Maastricht, The Netherlands) |
| 08.45 - 09.00 | 3.2 Local arterial stiffness assessed by echotracking is not associated with an increased pulse wave velocity in hypercholesterolemic rabbit  
M Isabelle, C Ragonnet, S Chimenti, C Badier-Commander, C Vayssettes-Courchay, N Villette, J-P Vilaine [Suresnes, France] |
| 09.00 - 09.15 | 3.3 Total arterial elastance is more strongly associated with cardiovascular disease than carotid-femoral pulse wave velocity  
CM Park, T Titin, K March, N Chaturvedi, AD Hughes [London, United Kingdom] |
| 09.15 - 09.30 | 3.4 Vascular aging may contribute to telomere length in patients with T2DM  
EN Dudinskaya, NV Brailova, ID Strazhesko, OY Isaikina, MS Pokrovskaya, ON Tkacheva, SA Boytsov, MV Shestakova [Moscow, Russian Federation] |
| 09.30 - 09.45 | 3.5 Changes in blood pressure and arterial mechanical properties after antiangiogenic drugs: association with cancer progression and mortality  
MA Aliou, JG Giroux, MB Brieu, FG Goldwasser, SL Laurent, PB Boutouyrie [Paris, France] |
| 09.45 - 10.15 | Special Guest Lecture  
Chairperson: G Silhace [Perugia, Italy]  
Proteomics of the vessel wall  
M Mayr [London, UK] |
| | 10.15 - 11.15 | Satellite Symposium organised and funded by Servier  
Arteries and hypertension: from single to triple therapy  
Introduction: JK Cruickshank [London, UK]  
Stiff arteries, hypertension, and monotherapy  
S Laurent [Paris, France]  
Further advances with triple therapy in hypertension  
C Vlachopoulos [Athens, Greece]  
Conclusion: L Van Bortel [Ghent, Belgium] |
| 12.15 - 13.15 | Manufacturer Demonstrations (in parallel)  
Fukuda Denshi  
Demonstration and Q & A  
Professor Kohji Shirai will be available to answer questions and a demonstration of the Vasera machine will be carried out  
Omron Healthcare Co., Ltd  
Live demonstration of the HEM-9000AI and VP-1000 presented by Iwao Kojima |
| 13.15 - 14.15 | Lunch, Exhibition and Poster Viewing |
| 14.15 - 15.30 | Oral Session 4  
Young Investigator Oral Presentations  
4.1 Acute, sympathetic-independent increases in heart rate by way of cardiac pacing raises aortic and brachial blood pressure with increased cardiac output and arterial stiffness  
I Tan, E Barin, A P Avolio, M Butlin [Sydney, Australia] |
| 14.30 - 14.45 | 4.2 Do level and variability of systolic blood pressure predict arterial properties or vice versa?  
Y-P Liu, Y-M Gu, L Thijs, K Asayama, Y Lin, L Jacobs, T Kuznetsova, P Verhamme, L Van Bortel, HAU Struijk-Brüder, JA Staessen [Leuven and Ghent, Belgium; Sendai, Japan; Maastricht, The Netherlands] |
| 14.45 - 15.00 | 4.3 Carotid hemodynamics during sympathetic nervous system stimulation via handgrip and cold pressure testing in young healthy subjects  
FJ Londono, TS Klopmeier, D Georgakopoulos, EG Lovett, P Segers [Ghent, Belgium; Eindhoven, The Netherlands; Minneapolis, United States of America] |
Inorganic nitrite, conduit arteries & central blood pressure
S Omar, H Fok, A Nair, J Hunt, B Jiang, P Chowienczyk, AJ Webb (London, United Kingdom)

A monoclonal antibody to the endogenous Na/K-ATPase ligand, marinobufagenin, reversed pro-fibrotic gene expression and reduced cardiovascular fibrosis in aged rats
OV Fedorova, V Shilova, V Zernetkina, Y Zhang, E Lehrmann, KG Becker, EG Lakatta, AY Bagrov (Baltimore, United States of America)

Arterial stiffness is increased in inflammatory bowel disease, dependent upon inflammation and reduced by immunomodulatory drugs
L Zanoli, S Rastelli, G Inserra, P Boutouyrie, S Laurent, P Castellino (Catania, Italy; Paris, France)

Long-term treatment with melatonin may improve anticontractile activity of perivascular fat in obese mice
C Agabiti Rosei, C De Ciuceis, C Rossiini, E Porteri, R Rezzani, LF Rodella, SB Withers, AM Heagerty, G Favero, D Rizzoni, E Agabiti Rosei (Brescia, Italy; Manchester, United Kingdom)

Early changes in arterial stiffness and central hemodynamics after renal sympathetic denervation
A Berukstis, N Misonis, L Ryliskyte, J Aganauskiene, A Laucevicius (Vilnius, Lithuania)

Associations between objectively measured physical activity energy expenditure and central haemodynamics. The ADDITION-PRO study
ASD Laursen, A-LS Hansen, N Winberg, S Brage, A Sandberg, T Lauritzen, ME Jørgensen, B Kiens, NB Johansen (Copenhagen, Esbjerg and Aarhus Denmark; Cambridge, United Kingdom)

Frequency response of blood pressure cuffs based on step response and forced sinusoidal harmonic excitation
R Lurf, R Semerd, M Meindl, C Mayer, B Hametner, T Weber, S Wasserteurer (Vienna and Wels, Austria)

MRI and PET
IB Wilkinson (Cambridge, UK)

Ultrasound
C de Korte (Nijmegen, The Netherlands)

Central aortic pressure and arterial stiffness: role in assessment of blood pressure variability and baroreceptor function
A Avolio (Sydney, Australia)

Vulnerable carotid plaques are associated with the development of early restenosis after carotid endarterectomy
EA Surkova, OV Tereshina, AN Vachev (Samara, Russian Federation)

Central pulse pressure: A possible robust marker of the cardiac hemodynamic load
M Ddaia, T Homiyama, A Yamashina (Tokyo, Japan)
Cardiovascular aging: insights from magnetic resonance imaging
Dr Alban Redon
Head, Imaging Core Lab ICAN, Cardiovascular Imaging Pitié Salpêtrière Hospital, Cardiology Institute, INSERM U678, Paris, France

Aortic stiffness is now established as an independent marker of cardiovascular aging and cardiovascular risk. However, the specific role of the proximal aorta, specifically the ascending aorta, remains understudied. Magnetic resonance imaging (MRI), a non-invasive technique has recently been proposed to measure new local and regional stiffness indices in the thoracic aorta. We will here review the available data on aortic stiffness assessed by MRI. We will discuss the methodological advantages and challenges of MRI, combined with planimetric tonometry, to evaluate local aortic distensibility and pulse wave velocity (PWV) and summarize available results concerning the distribution of such parameters in both the general population and disease and their prognostic value.

Aortic distensibility has been shown to be an early subclinical marker of vascular target organ damage in the general population and expected ranges for ascending aortic distensibility and aortic arch pulse wave velocity assessed in MRI have been described in the general population and in disease. Changes in aortic distensibility and arch PWV have been related to age-related geometric changes, specifically lengthening, enlargement and unfolding of the thoracic aorta. Increased proximal aortic stiffness measured by MRI has also been related to decreased systolic and diastolic function and concentric remodeling of the left ventricle in healthy individuals. Data are now available for proximal aortic stiffness in diabetes, hypertension and aortic diseases such as bicuspid aortic valve or Marfan syndrome. We will review data on aortic distensibility as an independent predictor of mortality and incident cardiovascular disease in the general population.

Special Guest Lecture
Proteomics of the vessel wall
Professor Manuel Mayr
Senior Fellow of the British Heart Foundation and Professor of Cardiovascular Proteomics at King’s College London, London, UK

Proteomics has made tremendous progress over the recent years. Initiatives, such as the Human Protein Atlas project, provide a great resource by capturing the in vivo location of proteins in different tissues and by making these data publically available (www.proteinatlas.org). Apart from the inherent limitations of antibody-based detection (antibody specificity, epitope masking, etc.), the only cardiovascular relevant tissue in the Human Protein Atlas is the heart. No large blood vessels are included in the tissue bank. At present, functional analysis tools do not capture some of the vascular proteins because these proteins are either only expressed during disease and/or not annotated as vascular proteins in the public databases.

Our group introduced new methods for the use of proteomics to study the vascular extracellular matrix and applied them to uncover extracellular matrix degradation during aneurysm formation. Our current understanding of extracellular matrix remodeling during vascular diseases is limited to a few molecules of interest that are investigated intensively whilst others are not studied at all. Moreover, data on specificities or commonalities between the extracellular matrices of different vessels is sparse. It will be essential that high-quality vascular proteomic data investigating changes in the vessel wall with aging and disease are made publicly accessible to advance the field (adapted from Mayr M. Vascular Proteomics – the forgotten blood vessels. Proteomics Clin Appl. 2013 Aug;7(7-8):463.).
**FOCUS: FUNCTIONAL IMAGING**

**MRI and PET**

Professor Ian B Wilkinson, Reader, BHF W E Parkes Senior Clinical Research Fellow and Honorary Consultant, University of Cambridge, Cambridge University Hospitals NHS Foundation Trust, Cambridge, UK

The ground-breaking developments in non-invasive imaging over the last 50 years has provided a range of exciting new tools for physiologists and clinicians interested in large artery structure and function. The main focus of my lecture will be on MRI and PET/CT.

MRI can be used in a number of different ways to provide useful information about large arteries, including: arterial diameter, wall thickness, endothelial function, neovascularization, and the distribution of plaque. However, perhaps the most common is the assessment of vessel stiffness. This can be done by measuring distension waveforms or pulse wave velocity (PWV). Particular advantages of MRI are that measurement sites are not limited by anatomy, and accurate path lengths can be obtained for PWV estimation. However, temporal resolution is limited, which means that most waveforms are a composite average over several heartbeats or minutes. Nevertheless, MRI has provided useful information about regional age-related changes in structure and stiffness within the aorta. A number of PET ligands are in clinical use, the most common being FDG. Uptake depends on metabolic activity, which is often used as a surrogate of inflammation. FDG PET/CT can aid the diagnosis of vasculitis and response to anti-inflammatory therapy. Emerging data suggests that chronic inflammatory diseases such as rheumatoid arthritis and COPD are associated with aortic inflammation, which may explain why they are also associated with increased, but reversible aortic stiffening. Other potentially interesting ligands are NaF (calcium), and FMISO (hypoxic).

**Ultrasound**

Dr Chris de Korte, Hendrik HG Hansen, Medical UltraSound Imaging Centre [MUSIC], Department of Radiology, Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands

**Introduction:** Intravascular Elastography has proven to be a sensitive tool to identify vulnerable plaques in coronary arteries. It is a technique to assess the deformation (strain) due to the pulsatile blood pressure of the vessel wall and plaque. However, for screening asymptomatic patients, a noninvasive technique is required. Using linear array transducers, the carotid artery can be imaged noninvasively. However, in contrast to intravascular ultrasound catheters, the ultrasound field is not co-aligned with the radial strain in the arterial wall for cross-sectional imaging. We developed a compounding technique to circumvent this problem and to reconstruct radial strain images of the carotid artery and plaques.

**Methods:** Linear array transducers are capable of emitting the ultrasound field under different angles. By compounding strain images acquired under different angles, the radial strain can be determined for the full cross-section of the carotid artery. The method was validated using phantoms of arteries with and without plaque. In vivo data was acquired in patients before an endarterectomy procedure was performed allowing validation of the technique by histology.

**Results:** Using the noninvasive elastographic compounding technique, high quality elastograms of arterial tissues and plaque can be obtained. Phantom experiments revealed that the quality of these elastograms is similar to that of elastograms obtained with intravascular elastography. Receiver operating curves demonstrate high correlations with histologically determined vulnerable plaque features. For the detection of lipid content and superficial macrophages sensitivities and specificities were 80% & 70%, and 100% & 100%, respectively.

**Conclusions:** Noninvasive vascular elastography using compounding is a promising technique to assess vulnerable plaque features in patients.
THURSDAY 17TH OCTOBER 2013

P1 – CLINICAL SCIENCE 1

**••** denotes Guided Poster

P1.01 •• Marker of arterial stiffness in chronic kidney disease - a prospective cohort study
M Baumann, V Suttmann, U Heemann, S Waserthurer (Munich, Germany and Vienna, Austria)

P1.02 •• Increased carotid IMT in patients With Type 2 diabetes free of cardiovascular complications appears to be an adaptive mechanism to an increased wall stress more than atherothrombotic degeneration
M Kozakova, C Morizzo, C Palombo (Pisa, Italy)

P1.03 •• Left ventricular remodeling: impact of global, regional and local aortic stiffness
TGS Quinaglia, MZB Bensalah, EB Bollache, NK Kachenoura, LM Macron, PB Boutouyrie, SL Laurent, EM Mousseaux (Paris, France)

P1.04 •• Impact of weight-reduction on arterial stiffness in obese children and adolescents: a one year follow-up study
KN Hvidt, MH Olsen, JC Holm, H Ilsen (Holbaek and Odense, Denmark)

P1.05 •• Aortic pulse wave velocity but not augmentation index is associated with asymptomatic carotid atherosclerosis
T Kahan, R Bőcsei, M Ilyés, A Cziraki (Stockholm, Sweden, Budapest and Hungary)

P1.06 •• Cardio-ankle vascular index (CAVI) is an independent predictor of death in maintenance hemodialysis patients
K Shirali, T Kono, D Nagayama, A Saiki, J Utina, S Tuchiya, T Yoshiida (Chiba, Japan)

P1.07 A longitudinal pilot study of aortic stiffness in COPD
AM Albarrati, NS Qays, S Delort, JF Murney, MM Murney, DJ Shale, JR Cockcroft (Cardiff, United Kingdom)

P1.08 Determinants of vascular damage in Systemic Lupus Enlhenimatosus
RM Bruno, S Armenia, G Cartoni, K Raimo, L Carli, C Tani, A Della Rossa, S Bombardieri, M Mosca, S Taddei, L Ghiadoni (Pisa, Italy)

P1.09 Mild cognitive impairment is associated with systemic vascular dysfunction
RM Bruno, L Ghiadoni, F Stea, F Faita, S Taddei, S Del Turco, M Maffei, G Tognoni, E Picano, R Sicari (Pisa, Italy)

P1.10 Beneficial effect of sequential nephron blockade on central pressure and large artery remodeling in resistant hypertension
HB Beaussier, MB Briel, FM Michael, GB Bobrie, SP Peyrard, PFP Plouin, SL Laurent, MA Azizi, PB Boutouyrie (Paris, France)

P1.11 True antihypertensive efficacy of sequential nephron blockade in patients with resistant hypertension and confirmed medication adherence
HB Beaussier, FM Michael, FC Coudere, MB Briel, PY Peyrard, MA Azizi, PFP Plouin, SL Laurent, PB Boutouyrie (Paris, France)

P1.12 Predictive combined role of calcium score and carotid-IMT in coronary artery disease
P Mezzetti, G Cesana, A Fattalian, F Cuscia, P Musca, M Campadello, F Soriani, P Faggiano, F Rigo, A Moreo, ML Muesian, A Paini, GF Mureddu, N Gaibazzi, C Giannattasio (Milano, Mestre – Venezia, Brescia, Roma and Parma, Italy)

P1.13 The assessment of vascular age is a useful tool to demonstrate subclinical arterial disease in hypertensive patients
MF Neves, J D’El-Rei, AR Cunha, MA Casanova, M Trindade, W Oigman (Rio de Janeiro, Brazil)

P1.14 Pulse wave velocity and kidney disease
R Kheder, L Rais, A Kheder (Tunis, Tunisia)

P1.15 Higher day time rate of systolic blood pressure variation is associated with reduced retinal arteriolar diameter in non-diabetic, but not in diabetic, individuals
P Veloudi, L Blizard, VK Srikanth, EV Lukoskova, OA Head, JH Sharman (Hobart and Melbourne, Australia; Moscow, Russian Federation)

P1.16 Correlation between wall-to-lumen ratio of retinal arterioles and clinic and 24 hours blood pressure
C Arabiti Rossi, ML Muesian, A Paini, M Salvetti, C Aggiusti, A Cancarini, S Duse, F Semeraro, D Rizzoni, E Agabiti Rossi (Brescia, Italy)

THURSDAY 17TH OCTOBER 2013

P1.17 Autonomic nervous activity in reactive hyperemia and conduit/resistance arterial endothelial functions in patients with hypertension
H Tomiyama, M Odaira, A Yamashina (Tokyo, Japan)

P1.18 Feasibility of 24-hour pulse wave velocity analysis in the management of patients with renal transplantation
E Minoukhine, IN Posokhov (Nizhniy Novgorod, Russian Federation)

P1.19 Association of aortic stiffness wave and lipoprotein apo-A1 with peripheral arterial disease: results of a nine-year follow-up
J Seidlerova, J Filipovsky (Pilsen, Czech Republic)

P1.20 Presence of intracranial stenosis in coronary patients is associated with deterioration of endothelial function
L Wylislyte, J Vailiukiene, J Badariene, A Laucevičius, A Valaičia, J Dementavičiene, R Puronaitė, J Butkienė, A Vaitkevičius (Vilnius, Lithuania)

P1.21 Carotid atherosclerosis expressed by increased intima media thickness is associated with low adherence to Mediterranean diet in erectile dysfunction patients
A Angelis, N Ioakimidis, K Kaznoouvides, A Agelakas, A Samentas, A Synodinis, A Ageli, C Vlachopoulos, C Stefanidis (Athens, Greece)

P1.22 Reduced baroreflex-sensitivity is not related to increased carotid artery stiffness in patients with schizophrenia
D Csók, B Mersich, A Sarkozi, M Kollai, A Pinter (Budapest, Hungary)

P1.23 Withdrawn by author

P1.24 Dose-dependent inward arterial remodelling and destiffening after olmesartan in hypertensives with metabolic syndrome: the vascular mechanism study
S Laurent, P Laeis, H Rauer, P Boutouyrie (Paris, France; Munich, Germany)

P1.25 Severity of erectile dysfunction predicts future events: a systematic review and meta-analysis of prospective studies
D Terentes-Prötzschn, C Vlachopoulos, N Ioakimidis, K Kaznoouvides, C Stefanidis (Athens, Greece)

P1.26 Microvascular reactivity parameters fail to predict cardiovascular events in patients with chronic kidney disease

P1.27 Arterial resistance is reduced in patients with type 2 diabetes and resistant hypertension after a median period of 6 months intensified antihypertensive treatment.
TK Seender, T de Backer, L Van Bortel (Ghent, Belgium)

P1.28 Withdrawn by author

P1.29 Cardio-ankle vascular index, left ventricular systolic dysfunction and inappropriate left ventricular mass
S Schillaci, F Battista, G Pucci (Terri, Italy)

P1.30 Differential meaning of retinal arterial remodeling and aortic distensibility in young hypertensives
D Rosenberg, A Redheuil, N Kachenoura, P Cluzel, A Decesare, E Koch, M Paques, X Gérard (Paris, France)

P1.31 A comparison of the popliteal and carotid arteries in young and older Caucasian men and women.
JM van Rooyen, LJ Kotzee, R Kruger, CM Celia, A Burger (Potchefstroom, South Africa)

P1.32 The high dose atorvastatin treatment allows to achieve echolucent symptomatic carotid plaque stabilization
OV Tereshina, EA Surkova, AN Vachev (Sofia, Bulgaria)

P1.33 Determinants of thoracic aorta remodeling by using MRI and carotido-femoral applanation tonometry.
AM Albarrati, NM Gale, S Enright, IC Munnery, MM Munnery, DJ Shale, JR Cockcroft (Cardiff, United Kingdom)

P1.34 Association of aortic stiffness wave and lipoprotein apo-A1 with peripheral arterial disease: results of a nine-year follow-up
J Seidlerova, J Filipovsky (Pilsen, Czech Republic)

P1.35 Determinants of thoracic aorta remodeling by using MRI and carotido-femoral applanation tonometry.
AM Albarrati, NM Gale, S Enright, IC Munnery, MM Munnery, DJ Shale, JR Cockcroft (Cardiff, United Kingdom)

P1.36 Association of aortic stiffness wave and lipoprotein apo-A1 with peripheral arterial disease: results of a nine-year follow-up
J Seidlerova, J Filipovsky (Pilsen, Czech Republic)
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<td>M Pagues, E Koch, X Girerd, F Rosant, D Rosenbaum, J Benesty, J Sahel, P Chaumet-Riffaud (Paris, France)</td>
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<td>D De Wilde, B Trachet, C Van der Donckt, B Vandeghinste, B Descamps, R Van Holen, C Vanhove, GRY De Meyer, P Segers (Ghent and Antwerp, Belgium)</td>
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<td>M O Kim, M Butlin, Y Li, F Wei, J Wang, M O Rourke, A.P Avolio (Sydney, Australia)</td>
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<td>LM Day, KM Maki-Petaja, IB Wilkinson, CM McEnery (Cambridge, United Kingdom)</td>
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<td>TP Ludvigsen, N Wiinberg, CJ Jensen, AT Callesen, HD Pedersen, BD Christoffersen, LH Olsen (Copenhagen, Frederiksberg and Malov, Denmark)</td>
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<td>C Doi, MPF Sutcliffe (Cambridge, United Kingdom)</td>
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<td>J Albinsson, AR Ahlgren, M Cinthio (Lund and Malmo, Sweden)</td>
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<td>LA Walton, MJ Sherratt, JK Cruickshank, R Akhtar, B Derby, C Austin (London, Manchester, and Liverpool, United Kingdom)</td>
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<td>J Woodcock-Smith, I Day, J Smith, K Miles, I Wilkinson, C McEnery (Cambridge, United Kingdom)</td>
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<td>Z Sabahi, C Yeung, M Butlin, AP Avolio, E Barin (Sydney, Australia)</td>
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<td>JEA Middelkoop, CM McEnery (Cambridge, United Kingdom)</td>
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<td>E N Barskaya, O B Kerbikov, I V Kaloshina, M A Agakina, A V Averianov, A G Kuzmichev (Moscow, Russian Federation)</td>
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<td>TP Ludvigsen, N Wübbel, CJ Jensen, AT Callesen, HD Pedersen, BD Christoffersen, LH Olsen (Copenhagen, Frederiksberg and Malov, Denmark)</td>
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<td>G Pucci, F Battista, G Bilò, G Parati, G Schillaci (Terni and Milano, Italy)</td>
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<td>M Cecelja, T Hussain, G Greil, T Spector, P Chowienycz (London, United Kingdom)</td>
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<td>C Vlachopoulos, N Ioakeimidis, A Aggelis, S Papanoulou, D Terentes-Printzios, M Abridalasoul, P Pietri, C Stefanadis (Athens, Greece)</td>
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POSTER PROGRAMME

THURSDAY 17TH OCTOBER 2013

P3 – POPULATION SCIENCE (CONTINUED)

P3.06 • Assessment of arterial stiffness during a five-years follow up in a general population in northern Italy
A Paini, M Salveti, C Aggiusti, F Bertacchini, C Agabiti Rosei, D Stassaldi, G Rubagotti, G Maruelli, E Agabiti Rosei, ML Muiesan (Brescia, Italy)

P3.07 The association between low body mass index and arterial stiffness in Africans: the PURE study
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