JOIN ARTERY NOW

Join ARTERY now and help us shape a better future for promoting the advancement of knowledge and dissemination of information concerning all aspects of arterial structure and function, either basic science, clinical research or epidemiology.

■ WHY BECOME A MEMBER OF ARTERY?

By becoming a member of ARTERY, you will instantly be part of an international, professionally diverse network of members. ARTERY members form a vast community of researchers, with active collaborative research, exchanges of students etc. The ARTERY community has produced some of the most quoted publications ever in the field.

Being a member offers privileged access to the annual ARTERY Meeting, with rebate price covering the membership. The annual subscription fee includes a subscription to ARTERY RESEARCH.

Please visit www.arterysociety.org to find out more about the activities of our society and how you can join and become involved with ARTERY.

T: +44 (0) 20 8977 7997
E: artery@conferencecollective.co.uk
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Supported by an unrestricted educational grant from Servier
# ARTERY 18 Scientific Organisers

## ARTERY EXECUTIVE COMMITTEE

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France

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Y Yasmin, UK  
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G Mitchell, USA

T Weber, Austria

## SECRETARIAT

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8 Waldegrave Road, Teddington, TW11 8HT, UK  
Tel: +44 (0) 20 8977 7997  
Email: artery@conferencecollective.co.uk  
ARTERY Society: www.arterysociety.org
Welcome

Dear Colleague

It is our great pleasure to welcome you to Guimarães for ARTERY 18. Here in the Iberian Peninsula, we have established a common forum to share knowledge, experience and new research collaborations. This is the Iberian Network on Arterial Structure, Central Hemodynamics and Neurocognition, of 15 academic and clinical centers in Portugal and Spain. Welcoming the world’s leading scientists in these fields will expand existing interest, increase ARTERY’s network and promote international collaborations.

ARTERY 18, here in Guimarães, will cover topics related to large artery structure and function through keynote lectures, abstract presentations and practical demonstrations. This year’s theme is ‘Neuro-vascular interaction’ so emphasis is on just that... the interaction of arterial function, its early life influences and the brain.

Taking advantage of Guimarães's hospitality and role through centuries of Portuguese history, ARTERY18 promotes the collaboration of 8 different societies and working groups in the field, to develop a common agenda, show how its study hugely increases understanding of the ‘ying and yang’ of how arterial function interacts with (high) blood pressure. Our thesis is that arterial measures improve ‘precision medicine’ for guidelines.

We keenly support young researchers and announce a record number of travelling scholarships for their participation. We again received a high number of abstracts this year (>220) on all aspects of clinical, experimental and biomechanical research on large artery structure and function and the brain.

ARTERY is a, perhaps the, forum for scientific debate and critique in which we hope all attendees can engage. The Society will again provide prestigious prizes for the best oral presentation by a ‘Young Investigator’ (YI) and for the ‘Best Poster’ and a YI evening. This year the Career Development Lectures will be given by Jeremy Lagrange (Germany), Madalina Negoita (UK) and Thessa Hilgenkamp (USA). Awards will be presented during the Conference Dinner on Friday evening. Presented abstracts will be published in the official journal of the Society – ARTERY Research, later in the year.

The McDonald Lecture will be given by Prof. Phil Chowienczyk, we have many other terrific Lecturers and this year’s recipient of the Lifetime Achievement Award is Prof. Stéphane Laurent.

On behalf of the Society we again thank Servier, and their senior medical adviser, Dr Veronique Morris, so that this event is possible through an unrestricted educational grant. We have received marvellous local support from the City of Guimarães and Minho University for which we are extremely grateful. A final word must be to extend our warmest appreciation to our sponsors and exhibitors: Alam Medical, Atcor Medical, BPLab, Fujifilm Sonosite BV, Fukuda Denshi and UNEX Corporation.

Enjoy the meeting!

Professor Kennedy Cruickshank
President of ARTERY

Professor Pedro Guimarães Cunha
Chair, Local Organizing Committee, ARTERY18
# Programme Overview

## THURSDAY 18 OCTOBER 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.15</td>
<td>Satellite Symposium I: Joint Session: Transcontinental Expert Meeting on Arterial Function</td>
</tr>
<tr>
<td>10.00</td>
<td>Registration</td>
</tr>
<tr>
<td>11.00</td>
<td>Welcome address</td>
</tr>
<tr>
<td>11.15</td>
<td>Opening Lecture: Professor Josef Priller, Universitätsmedizin Berlin, Germany</td>
</tr>
<tr>
<td>11.45</td>
<td>Invited Lecture: Dr Luca Liberale, University of Zurich, Switzerland</td>
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<tr>
<td>12.15</td>
<td>Oral Session I: Epidemiology and Special Populations</td>
</tr>
<tr>
<td>13.15</td>
<td>Lunch, poster viewing and exhibition</td>
</tr>
<tr>
<td>14.30</td>
<td>Special Guest Lecture: Professor Ashraf Khir, Brunel University, UK</td>
</tr>
<tr>
<td>15.00</td>
<td>Career Development Lectures</td>
</tr>
<tr>
<td>16.00</td>
<td>Refreshments, Poster and Exhibition viewing</td>
</tr>
<tr>
<td></td>
<td>ARTERY Young Investigator Business Meeting</td>
</tr>
<tr>
<td>16.30</td>
<td>Joint Session with LATAM Artery, North American Artery and Pulse of Asia</td>
</tr>
<tr>
<td>17.30</td>
<td>Invited Lecture: Professor Pablo Blinder, Tel Aviv University, Israel</td>
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<tr>
<td>18.00</td>
<td>Poster Session I and Welcome Networking Reception</td>
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<tr>
<td>21.00</td>
<td>ARTERY Young Investigator networking event</td>
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## FRIDAY 19 OCTOBER 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08.00</td>
<td>Refreshments, Poster and Exhibition viewing</td>
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<tr>
<td>08.30</td>
<td>Oral Session II: Young Investigator Award</td>
</tr>
<tr>
<td>10.00</td>
<td>Special Guest Lecture: Professor Catherine Shanahan, King's College London, UK</td>
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<tr>
<td>10.30</td>
<td>Refreshments, Poster and Exhibition viewing</td>
</tr>
<tr>
<td>11.00</td>
<td>Oral Session III: Clinical Aspects, Hypertension and Diabetes</td>
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<tr>
<td>12.30</td>
<td>Young Investigator Session: Professor Warwick Anderson, Human Frontier Science Program, France</td>
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<tr>
<td>13.00</td>
<td>Poster Session II and Lunch and Exhibition viewing</td>
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<tr>
<td>14.30</td>
<td>Arterial stiffness as a risk factor for cerebral vascular lesions: Dr Dariusz Gasecki, University of Gdansk, Poland</td>
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<td>Arterial aging: how to get from EVA to SUPERNOVA: Professor Stéphane Laurent, Hôpital Européen Georges Pompidou, France Symposium organised in collaboration with Servier</td>
</tr>
<tr>
<td>15.30</td>
<td>Oral Session IV: Models, Methodologies and Interventions</td>
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<tr>
<td>17.00</td>
<td>Refreshments, Poster and Exhibition viewing</td>
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<tr>
<td>17.30</td>
<td>Focus Update: Professor Elaine Urbina, Cincinnati Children's Hospital Medical Center, Cincinnati, USA Professor Renate Oberhoffer, Technical University of Munich, Germany</td>
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<tr>
<td>18.00</td>
<td>ARTERY Annual Business Meeting</td>
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<td>20.00</td>
<td>ARTERY Conference Dinner</td>
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## SATURDAY 20 OCTOBER 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08.30</td>
<td>Refreshments, Poster and Exhibition viewing</td>
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<tr>
<td>09.00</td>
<td>Debate: Professor Alberto Avolio, Macquarie University, Australia</td>
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<td>Professor Ernesto Schiffrin, McGill University, Canada</td>
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<tr>
<td>09.50</td>
<td>Focus Update: Professor Ernst R. Rietzschel, Ghent University, Belgium</td>
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<tr>
<td>10.10</td>
<td>Oral Session V: Brain</td>
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<tr>
<td>11.10</td>
<td>Refreshments, Poster and Exhibition viewing</td>
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<tr>
<td>11.40</td>
<td>McDonald Lecture: Professor Phil Chowienczyk, Kings College London, UK</td>
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<tr>
<td>12.10</td>
<td>Lifetime Achievement Award</td>
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<tr>
<td>12.40</td>
<td>Concluding Remarks and Close of conference</td>
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<tr>
<td>13.00</td>
<td>Light lunch</td>
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<tr>
<td>14.00</td>
<td>Satellite Symposium II: 3rd Meeting of the Iberian Network on Arterial Structure, Central Hemodynamics and Neurocognition</td>
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# Satellite Symposium I

**Thursday 18 October 2018**  
**08.15 - 10.40 hrs**  
**Centro Cultural Vila Flor - Guimarães, Portugal**  
**(Room S1 - Old Palace)**

**Joint Session**  
**Transcontinental Expert Meeting on Arterial Function**

Endorsed by the Artery Society, the WG Vascular Structure and function of the ESH, Working Group on Aorta and Peripheral Circulation of the ESC, DeGAG, Pulse of Asia, North American Artery, LATAM Artery, Iberian Network on Arterial Structure, Central Hemodynamics and Neurocognition.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08.15 – 08.30</td>
<td><strong>Refreshments and registration</strong></td>
</tr>
</tbody>
</table>
| 08.30 – 08.34 | Welcome  
Prof. Kennedy Cruickshank, Prof. Pierre Boutouyrie and Prof. Pedro Cunha |
| 08.34 – 08.42 | Framing the need of a common work agenda concerning arterial function  
Prof. Stéphane Laurent |
| 08.42 – 08.50 | Arterial function and/or blood pressure: refining the target  
Prof. Kennedy Cruickshank |
| 08.50 – 09.20 | Discussion |
| 09.20 – 09.30 | Reference data across race/ethnicity, sex and age (including pediatric data) International harmonization of measurements  
Prof. Elaine Urbina |
| 09.30 – 09.40 | Increasing the use of arterial biomarkers in clinical practice. How?  
Prof. Charalambos Vlachopoulos |
| 09.40 – 10.10 | Discussion |
| 10.10 – 10.15 | Proposal of Joint Review on Arterial Function evidence: adapting PICO methodology?  
Prof. Pedro Cunha |
| 10.15 – 10.40 | Concluding remarks and Work Agenda  
Prof. Kennedy Cruickshank, Prof. Pierre Boutouyrie and Prof. Pedro Cunha |

**This event is free of charge.**

If you are not registered for the ARTERY 18 Conference you are still eligible for free entry.
Satellite Symposium II

Saturday 20 October 2018
14.00 - 16.00 hrs
Centro Cultural Vila Flor - Guimarães, Portugal
(Room S1 – Old Palace)

3rd Meeting of the Iberian Network on Arterial Structure, Central Hemodynamics and Neurocognition

This event is free of charge.
If you are not registered for the ARTERY 18 Conference you are still eligible for free entry.
A-Z General Information

ABSTRACTS
Abstracts for ARTERY 18 are available to download from the ARTERY website:
Accepted oral and poster abstracts will also be published in the December 2018 issue of the Society’s Journal, ARTERY Research.

ACCREDITATION
Accreditation from The European Board for Accreditation in Cardiology (EBAC) has been approved for CPD. Details of the points awarded will be included on the certificates of attendance and available on the website post conference.

AWARDS AND PRIZES
The Awards Ceremony will take place during the Conference Dinner on Friday 19 October. Prizes will be awarded for Best Young Investigator Presentation, Career Development Lecture and Best Poster.

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

CLOAKROOM
An unmanned cloakroom is available on the Level 1 of the Grand Auditorium Foyer, behind the Registration Desk.

ENVIRONMENT POLICY
In keeping with Guimarães’ policy as a Green European City, we will provide a minimal amount of hard-copy materials during the conference. All important information can be downloaded from the ARTERY website. For the full Conference Programme, Abstract Book and Social Programme please visit: http://www.arterysociety.org/our-activities/our-conference/

EXHIBITION
Please ensure you take time to visit and support the companies exhibiting at ARTERY 18.

INTERNET ACCESS
Wi-Fi is provided free of charge for all participants. Please visit the registration desk for log in details.

LUNCH & REFRESHMENTS
Refreshment breaks will be served in the exhibition area (Grand Auditorium Foyer – Level 1)
Lunch will be served in the Vila Flor Restaurant on the Lower Level. Lunch will be provided for all participants on Thursday, Friday and Saturday.

MOBILE/CELL PHONES & ELECTRONIC DEVICES
As a courtesy to speakers and other delegates, please ensure that mobile/cell phones, tablets and other electronic devices are switched to silent during sessions. Filming during sessions is not permitted.

PHOTOGRAPHY
The Secretariat will be taking photographs throughout the meeting for use on the ARTERY website and in other publications. If you do not wish to be photographed, please let the Secretariat staff know by visiting the Registration Desk.
POSTERS
Posters will be displayed throughout the event and the moderated sessions are allocated on the following days:

**Thursday 18 October – 18.00 – 19.00**
- Parallel Poster Session I: Basic
- Parallel Poster Session I: Clinical Aspects
- Parallel Poster Session I: Hypertension I
- Parallel Poster Session I: Hypertension II
- Parallel Poster Session I: Models, Methodologies and Imaging Technology I
- Parallel Poster Session I: Interventions
- Parallel Poster Session I: Special Populations I
- Parallel Poster Session I: Pathophysiology

**Friday 19 October – 13.00 – 14.00**
- Parallel Poster Session II: Brain
- Parallel Poster Session II: Epidemiology
- Parallel Poster Session II: Hypertension III
- Parallel Poster Session II: Hypertension VI
- Parallel Poster Session II: Models, Methodologies and Imaging Technology II
- Parallel Poster Session II: Diabetes, Obesity and Kidney
- Parallel Poster Session II: Special Populations II
- Parallel Poster Session II: Other

All posters will be moderated and visited by judges during the above listed times. All poster presenters are encouraged to be at their posters during the time of their moderated presentation. We regret that any presenters not at their posters during these sessions will not be eligible for an award.

**MOUNTING & REMOVAL OF POSTERS**
All posters should be mounted by 16.30hrs on Thursday 18 October.
All posters must be removed by 13.00hrs on Saturday 20 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 18 October: 10.00 - 20.00
- Friday 19 October: 08:00 - 18.30
- Saturday 20 October: 08.00 - 13.00

**SPEAKER PREVIEW**
All oral presenters should meet with the audio-visual technician in the speaker preview room 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.

**VENUE ADDRESS**
Centro Cultural Vila Flor
AV. D. Afonso Henrriques, 701
4810 431 Guimarães
Social Programme

**WELCOME RECEPTION**

**Thursday 18 October 19.00 - 20.00**  
**Centro Cultural Vila Flor**  
(Grand Auditorium Foyer – Level 1)

A great opportunity to catch up with colleagues and old friends and make new acquaintances.

**Tickets to this event are included in the registration fee.**

**PORTUGUESE CULTURAL/GASTRONOMIC EVENT**

**Thursday 18 October 19.30 – 22.00**  
**Outdoor Area, Old Palace, Centro Cultural Vila Flor**

With support from the Portuguese Tourism Office, we will be providing stalls with delicacies and crafts from all over the country. This event is open to all ARTERY 18 delegates and is free of charge.

**YOUNG INVESTIGATOR NETWORKING EVENING**

**Thursday 18 October 21.00 - 24.00**  
**A Medieval - Largo da Oliveira, 4800, Guimarães**  
**Meeting Point: Centro Cultural Vila Flor**  
(outside main entrance) for a 10-minute guided walk to A Medieval.

A perfect opportunity for new investigators (PhD students, post-docs or clinical research fellows) to mingle with their peers in a welcoming, relaxed environment in one of the most beautiful and vibrant squares of the city.

Tickets to this event are free of charge to Young Investigators under the age of 40. Please speak to a member of staff at the Registration Desk who can advise of availability.

**ARTERY18 RUN**

**Friday 19 October 07.00 - 08.00**  
**Centro Cultural Vila Flor (meeting point)**

Run through the medieval streets of the historic city of Guimarães during ARTERY18 Running. The running route (2.6 km) covers some of the major interest points of the city. Discover all the charms of Guimarães, the birthplace of Portugal.

This is an easy run and is suitable for all levels of fitness. Feel free to walk if you prefer not to run!

We invite you take photos of the scenic route during the run and upload them to Instagram with #artery18running

**CONFERENCE DINNER**

**Friday 19 October 19.30 - late**  
**Pousada Mosteiro de Guimarães**  
**Largo Domingos Leite de Castro, 4810-011, Guimarães**

The Pousada Mosteiro Guimarães is a an ancient 12th-century Augustinian Monastery built by the First Queen of Portugal, Dona Mafalda. This building is a classified monument of public interest located on the Penha slope with a 9-hectare garden and breath-taking views of the city.
Tickets should be booked and prepaid in advance. If you wish to purchase a ticket please speak to a member of staff at the Registration Desk who can advise about availability.

A coach service will be organised for all dinner guests:

• Meeting Point: 19.30 - Centro Cultural Vila Flor (outside main entrance) travelling to Pousada Mosteiro de Guimarães

• Meeting Point: 22.30 and 23.30 - Pousada Mosteiro de Guimarães (car park) travelling to the official ARTERY hotels (Hotel de Guimarães and Hotel Fundador)

**ARTERY OPEN GOLF TOURNAMENT**

**Saturday 20 October 14.30 (tee off time)**  
**Estela Golf Club - Place of the Rio Alto, Stela 4570-242, Povoa de Varzim**

We invite you to the very first “ARTERY Open” Golf Tournament taking place in the Estela Golf Club immediately after the ARTERY 18 Conference. Estela Golf Club is one of the leading golf courses in Portugal and is located by the River Alto near the town of Povoa de Varzim, north of Porto. After the tournament there will be informal drinks and supper in the Estela Golf Course Restaurant. #arterygolf

For more information and to book your place please email jaulmann@yahoo.com

*The ARTERY Society would like to thank Johannes Baulmann for organising the ARTERY Open Golf Tournament.*
Charity Partners/Exhibitors

SERVIER
50 rue Carnot
92284 Suresnes Cedex France
E: webmaster@servier.com

SERVIER is the leading French independent pharmaceutical company and the second largest French pharmaceutical company worldwide. Currently established in 148 countries with 21,600 employees worldwide, it has one of the world's highest ratios of investment in research and development (25%). SERVIER's strong commitment to innovative research underlines its mission to improve the quality of people's lives by discovering and delivering therapeutic innovations to healthcare professionals and to enable patients to feel better and live longer.

Cardiovascular diseases represent the most important therapeutic area for SERVIER, which has developed various drugs such as Coversyl (perindopril), Natrilix SR (indapamide), as well as fixed-combination antihypertensives: Preterax (perindopril/indapamide), Coveram (perindopril/amlodipine), Natrixam (indapamide/amlodipine), Triplixam (perindopril/indapamide/amlodipine), Viacoram (perindopril/amlodipine), and most recently Triveram (atorvastatin/perindopril/amlodipine) and Cosyrel (bisoprolol/perindopril).

Symposium organised in collaboration with Servier, Friday 19 October @ 14:30

FRIENDS OF ARTERY CHARITY (EXHIBITING COMPANIES)

ALAM Medical
69 Bis Rue de Malacombe, 38070 Saint Quentin, Fallavier, France
W: www.complior.com
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E: info@complior.com

AtCor Medical
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NSW 2114, Australia
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T: +61 2 9874 8761
E: contact.europe@atcormedical.com

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T: +7 (831) 212 41 41
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T: +49-171-8171003
E: achim@alf-distribution.com
10–12 October 2019
Budapest, Hungary
www.arterysociety.org
# Scientific Programme

**THURSDAY 18 OCTOBER 2018**

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<th>Session</th>
<th>Location</th>
<th>Details</th>
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<td>10.00</td>
<td>Registration</td>
<td>Grand Auditorium Foyer - Level 1</td>
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<tr>
<td>11.00</td>
<td>Welcome address</td>
<td>Grand Auditorium</td>
<td>K Cruickshank, President, ARTERY; P Cunha, Chair, Local Organising Committee, ARTERY 18</td>
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<tr>
<td>11.15</td>
<td>Opening Lecture</td>
<td>Grand Auditorium</td>
<td>Chair: N Sousa</td>
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<td>How do Brain Cells control blood flow: insights into neurovascular dysfunction</td>
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<td>Professor Josef Priller, Universitätssmedizin Berlin, Germany</td>
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<tr>
<td>11.45</td>
<td>Invited Lecture</td>
<td>Grand Auditorium</td>
<td>Chair: P Lacolley</td>
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<td>New drug targets for slowing vascular ageing: SIRT1, SIRT5, JunD and p66Sch</td>
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<td>Dr Luca Liberale, University of Zurich, Switzerland</td>
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<tr>
<td>12.15</td>
<td>Oral Session I</td>
<td>Grand Auditorium</td>
<td>Chair: J Cockcroft, F Mattace-Raso</td>
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<td>ORAL SESSION I - Epidemiology and Special Populations</td>
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<td>1.1 Promotion of arterial stiffness by childhood cancer and its characteristics in adult long-term survivors</td>
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<td>Arnold, Natalie; Merzenich, Hilrud; Wingert, Arthur; Schluz, Andreas; Schneider, Astrid; Prochaska, Jürgen H; Göbel, Sebastian; Neu, Marie-Astrid; Henninger, Nicole; Panova-Noeva, Marina; Eckerle, Susan; Spix, Claudia; Schidtmann, Irene; Lackner, Karl J; Beutel, Manfred E; Pfeiffer, Norbert; Münzel, Thomas; Faber, Jörg; Wild, Philipp S</td>
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<td>Johannes Gutenberg University Mainz, Germany</td>
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<td>1.2 Associations between indicators of Cardiovascular Disease and Pulse Wave Analysis and velocity: A comparison of devices</td>
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<td>Ellins, Elizabeth1; Lennon, Lucy2; Papacosta, Olia2; Wannamethee, Goya2; Whincup, Peter3; Halcox, Julian4</td>
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<td></td>
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<td></td>
<td>1Swansea University Medical School, Swansea, UK, 2UCL, London, UK, 3St George’s University of London, UK</td>
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<td>1.3 Prediction of cardiovascular mortality and morbidity in the Malmö Diet-Cancer cohort for the identification of Healthy Vascular Ageing, using markers of vascular status</td>
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<td>Nilsson Wadström, Benjamin; Nilsson, Peter; Fatehali, Abd Al-Hakim; Engstrom, Gunnar Lund University, Sweden,</td>
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<td>1.4 Prognostic value of proximal aorta longitudinal strain in Marfan Syndrome</td>
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<td>Guala, Andrea1; Rodríguez-Palomares, Jose1; Ruiz-Muñoz, Arora1; Gandara, Minerva1; Sanchez, Violetas; Forteza, Alberto2; Garcia-Dorado, David; Evangelista, Artur1; Teixido-Tura, Gisela1</td>
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<td>1Hospital Vall d’Hebron, Spain, 2University Hospital 12 de Octubre, Spain, 3Hospital Puerta del Hierro, Spain</td>
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<td>1.5 Deep Vascular Phenotyping in patients with fibromuscular dysplasia</td>
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<td>Bruno, Rosa Maria1; Marais, Louise2; Khettab, Hakim3; Lorthioir, Aurélien4; Jeunemaitre, Xavier5; Laurent, Stéphane5; Boutouyrie, Pierre5; Azizi, Michel5</td>
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<td>1University of Pisa, Italy, 2INSERM U970, France, 3APHP, Hôpital Européen Georges Pompidou, France, 4Polytechnic Institute, Portugal, 5Clinica da Aveleira - Coimbra - Portugal</td>
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<td>13.15</td>
<td>Lunch, Poster and Exhibition viewing</td>
<td>Restaurant and Grand Auditorium Levels 1 &amp; 2</td>
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| 14.30  | Special Guest Lecture                                                                         | Chair: P Segers  
New approaches on the evaluation of arterial hemodynamics, including the carotid arteries - Grand Auditorium  
Professor Ashraf Khir, Brunel University, UK |
| 15.00  | Career Development Lectures - Grand Auditorium                                                 | Chair: P Boutouyrie, L van Bortel  
Peripheral blood flow regulation in response to sympathetic stimulation in individuals with Down Syndrome  
Dr Thessa Hilgenkamp, University of Illinois at Chicago, USA  
Validation of ultrasound determination of local pulse wave velocity in the human ascending aorta against MRI measurements  
Dr Madalina Negoita, Brunel University London, UK  
The regulatory role of coagulation factors on arterial function  
Dr Jeremy Lagrange, University Medical Center of the Johannes Gutenberg-University Mainz, Germany |
| 16.00  | Refreshments, Poster and Exhibition viewing - Grand Auditorium Foyer - Levels 1 & 2             | Young Investigator Business Meeting (Room S3 - Vila Flor Old Palace) |
| 16.30  | Joint Session with LATAM Artery, North American Artery, Pulse of Asia - Grand Auditorium        | Chair: K Cruickshank, G Pierce, P Forcada, A Avolio  
**NAA1** Greater aortic stiffness is associated with lower hippocampal cerebrovascular reserve but not cerebral blood flow or amyloid in middle-aged and older adults  
Dr Lindsey Dubose, University of Iowa, USA (North American Artery)  
**LATAM1** Association of pulse wave velocity and body mass index in healthy Mexican population  
Dr Daniela Avila Novoa, University of Guadalajara, Mexico (LATAM Artery)  
**POA1** Which is more correlated with hypertensive organ damage, sleep blood pressure assessed by self-measured at home or ambulatory blood pressure monitoring? The Japan Morning Surge-Home Blood Pressure (J-HOP) Study  
Dr Sirisawat Wanthong, Jichi Medical University, Japan (Pulse of Asia) |
| 17.30  | Invited Lecture                                                                               | Chair: G Mitchell  
Imaging Neurovascular Coupling: From cortical microinfarcts to hypertension - impact on neuronal structure and function  
Professor Pablo Blinder, Tel Aviv University, Israel |
| 18.00  | Poster Session I and Welcome Networking Reception                                                | **Poster Session I: Basic** (P1 – P8)  
Chair: P Lacolley, S Greenwald  
**Poster Session I: Clinical Aspects** (P10 – P21)  
Chair: J Baulmann, L Bortolotto  
**Poster Session I: Hypertension I** (P22 – P33)  
Chair: D Terentes-Printzios, J Hashimoto  
**Poster Session I: Hypertension II** (P34 – P45)  
Chair: P Forcada, T Weber  
**Poster Session I: Models, Methodologies and Imaging Technology I** (P46 – P56)  
Chair: P Segers, A Khir  
**Poster Session I: Interventions** (P57 – P66)  
Chair: M Muiesan, F Mattace-Raso  
**Poster Session I: Special Populations I** (P67 – P74)  
Chair: L Van Bortel, I Wilkinson  
**Poster Session I: Pathophysiology** (P75 – P84)  
Chair: P Boutouyrie, G Pierce |
| 21.00  | ARTERY Young Investigator Networking Evening                                                    | - Grand Auditorium Foyer - Levels 1 & 2  
A Medieval - Largo da Oliveira, 4800, Guimarães |
FRIDAY 19 OCTOBER 2018

08.00 Refreshments, Poster and Exhibition viewing - Grand Auditorium Foyer - Levels 1 & 2

08.30 ORAL SESSION II - Young Investigator Award - Grand Auditorium

Chair: C Vlachopoulos, T Hansen

2.1 Knock-out of Matrix Metalloproteinase-12 exacerbates compromised mechanical homeostasis in arterial aging
Spronck, Bart1; Ramachandra, Abhay B.1; Toczek, Jakub2,3,4; Han, Jinah2,3,4; Sadeghi, Mehran2,3,4; Humphrey, Jay D.1,2
1Yale University, USA, 2Yale School of Medicine, USA, 3Veterans Affairs Connecticut Healthcare System, USA, 4Yale Cardiovascular Research Center, USA

2.2 Greater Blood Pressure Variability is associated with lower cognitive performance – The Maastricht Study
Zhou, Tan Lai - Presenter1; Kroon, Abraham1, Stehouwer, Coen1; van Boxtel, Martin1; Verhey, Frans1; Schram, Miranda1; van Sloten, Thomas1,2,3; Henry, Ronald1
1Maastricht University, The Netherlands, 2Université Paris Descartes, Sorbonne Paris Cité, Faculté de Médecine, Paris, France, 3INSERM, UMR-S970, Paris Cardiovascular Research Center, Department of Epidemiology and Department of Arterial Mechanics, Paris, France

2.3 Occupational, sport and leisure related physical activity have contrasting effects on neural baroreflex sensitivity. The Paris Prospective Study III.
Climie, Rachel1; Boutouyrie, Pierre1; Perier, Marie-Cecile1; Chaussade, Edouard1; Pilchart, Matthieu1; Offredo, Lucile1; Guilbaut, Catherine1; van Sloten, Thomas1; Thomas, Frederique1; Pannier, Bruno1; Sharman, James1; Laurent, Stephane1; Jouven, Xavier1; Empana, Jean-Philippe1
1INSERM U970, France, 2APHP, Paris Descartes University, France, 3Investigations Préventives et Cliniques (IPC), France, 4Menzies Institute for Medical Research, Australia

2.4 Central Systolic Blood Pressure provides additional information in risk prediction in hemodialysis patients
Mayer, Christopher C.1; Matschkal, Julia1; Sarafidis, Pantelis A.1; Hagmair, Stefan1; Lorenz, Georg1; Angermann, Susanne1; Braunisch, Matthias C.1; Baumann, Marcus1; Heemann, Uwe1; Schmaderer, Christoph1; Wasertherue, Siegfried1
1Austrian Institute of Technology, Austria, 2Technical University of Munich, Germany, 3Aristotle University of Thessaloniki, Greece

2.5 Does wave reflection protect the microvasculature from high pulse pressure?
Kondiboyina, Avinash1,2; Smolich, Joel1,2; Cheung, Michael1,2,3; Westerhof, Berend4; Westerhof, Nico4; Mynard, Jonathan1,2,3
1Murdoch Children’s Research Institute, Australia, 2University of Melbourne, Australia, 3Royal Children’s Hospital, Australia, 4VU University Medical Center, The Netherlands

2.6 Feasibility of aortic wave intensity analysis from sequentially acquired cardiac MRI and non-invasive central blood pressure
Bhuva, Anish1,2; Nadarajan, Niro1; D'Silva, Andrew1; Torlasco, Camilla1; Boubertakh, Redha1; Jones, Siana1; Scully, Paul1,2; Bastiaenen, Rachel1; Lloyd, Guy1; Sharma, Sanjay1; Moon, James1,2,3; Parker, Kim5; Manisty, Charlotte1,2,3; Hughes, Alun1
1University College London, London, UK, 2Barts Heart Centre, UK, 3University of London, London, United Kingdom, 4IRCCS, Italy, 5Imperial College London, UK

2.7 Fitness modifies the association between exercise blood pressure and left-ventricular mass in adolescence
Huang, Zhengzheng1; Fonseca, Ricardo1; Sharman, James1; Chaturvedi, Nishi1; Smith, George1; Lawlor, Deborah1; Howe, Laura1; Park, Chloe1; Hughes, Alun1; Schultz, Martin1; Schultz, Martin1
1Menzies Institute for Medical Research, Australia, 2University College London, London, UK, 3University of Bristol, UK

2.8 Relationships between adiposity and Left Ventricular function in adolescents: Mediation by Blood Pressure and other cardiovascular measures
Taylor, Hannah1; Hughes, Alun D1; Fraser, Abigail1; Howe, Laura1; Smith, George Davey1; Lawlor, Debbie1; Chaturvedi, Nishi1; Park, Chloe1
1University College London, UK, 2University of Bristol, UK
10.00  **Special Guest Lecture** - Grand Auditorium  
Chair: K Cruickshank, Bo Fernhall  
**Molecular and cellular changes in arterial function over the life course – from accelerated ageing to calcification**  
Professor Catherine Shanahan, *King’s College London, UK*

10.30  **Refreshments, Poster and Exhibition viewing** - Grand Auditorium Foyer - Levels 1 & 2

11.00  **ORAL SESSION III - Clinical Aspects, Hypertension and Diabetes** - Grand Auditorium  
Chair: M Lorenzo Muiesan, B Benczur

### 3.1 Strain Discontinuities in Carotid Atherosclerotic Plaques - A novel marker for Plaque Vulnerability?

Vonk, Tim1; Hermeling, Evelien1; Schreuder, Floris1; Mess, Werner1; Kooi, Eline1  
1*Maastricht University Medical Center, The Netherlands*

### 3.2 Reservoir pressure integral is independently associated with the reduction in renal function in an older population

Aizawa, Kunihiko1; Casanova, Francesco1; Mawson, David M1; Gooding, Kim M1; Strain, W David1; Gates, Phillip E1; Ostling, Gerd2; Khan, Faizal1; Colhoun, Helen M1; Palombo, Carlo1; Parker, Kim H1; Nilsson, Jan1; Shore, Angela C1; Hughes, Alun D1  
1*University of Exeter Medical School, UK*, 2*Lund University, Sweden*

### 3.3 Role of arterial stiffness and Blood Pressure variability in the definition of SHATS (Systemic Hemodynamic Atherothrombotic Syndrome)

Scuteri, Angelo1; Rolva, Valentina2; Alunni Fegatelli, Danilo3; Tesauro, Manfredi4; Gabriele, Marco5; Di Daniele, Nicola6  
1*University Hospital Sassari, Italy*, 2*Policlinico Tor Vergata, Italy*, 3*University of Rome La Sapienza, Italy*, 4*University of Rome Tor Vergata, Italy*

### 3.4 A clinical score to predict elevated arterial stiffness: Derivation and validation in 3,943 hypertensive patients

Xaplanteris, Panagiotis1; Vlachopoulos, Charalambos2; Protogerou, Athanasios3; Aznaouridis, Konstantinos4; Terentes-Printzios, Dimitris5; Argyris, Antonis6; Tentolouris, Nikolaos7; Sfikakis, Petros8; Tousoulis, Dimitris9  
1*CHU Saint Pierre, Belgium*, 2*University of Athens, Greece*, 3*Laiko University General Hospital, Greece*

### 3.5 Cuff Blood Pressure is progressively more biased with increasing age: Individual participant level analysis from the INSPECT consortium

Picone, Dean1; Schultz, Martin1; Otahal, Petr1; Al-Jumaily, Ahmed2; Black, J. Andrew2; Bos, Willem3; Chen, Chen-Huan4; Chen, Hao-Min4; Cremer, Antoine5; Dwyer, Nathan6; Fonseca Diaz, Ricardo7; Gould, Brian8; Hughes, Alun9; Kim, Hack-Lyoung9; Lacy, Peter10; Laugesen, Esben11; Muecke, Sandy12; Ohte, Nobuyuki13; Omboni, Stefano13; Ott, Christian14; Peng, Xiaojing14; Pereira, Telmo15; Pucci, Giacomo16; Roberts-Thomson, Philip17; Rossen, Niklas18; Schmieder, Roland19; Srikanth, Velandai20; Stewart, Ralph21; Stouffer, George22; Sueta, Daisuke23; Takazawa, Kenji24; Wang, Ji-Guang25; Weber, Thomas26; Westerhof, Berend27; Williams, Bryan28; Yamada, Hirotsugu29; Yamamoto, Eiichiro30; Sharman, James31  
1*Menzies Institute for Medical Research, Australia*, 2*Auckland University of Technology, New Zealand*, 3*St Antonius Hospital, The Netherlands*, 4*National Yang-Ming University, Taiwan*, 5*University Hospital of Bordeaux, France*, 6*BMI Hospital Blackheath, UK*, 7*University College London, UK*, 8*Seoul National University, South Korea*, 9*Aarhus University Hospital, Denmark*, 10*Flanders University, Australia*, 11*Nagoya City University, Japan*, 12*Italian Institute of Telemedicine, Italy*, 13*Friedrich-Alexander University, Germany*, 14*Polytechnic Institute of Coimbra, Portugal*, 15*University of Perugia, Italy*, 16*University of Auckland, New Zealand*, 17*University of North Carolina at Chapel Hill, USA*, 18*Kumamoto University, Japan*, 19*Tokyo Medical University Hospital, Japan*, 20*Shanghai Jiao Tong University, China*, 21*Klinikum Wels-Grieskirchen, Austria*, 22*VU University Medical Center, The Netherlands*, 23*Kyushu University Hospital, Japan*
3.6 Blood pressure reduction is the main determinant of the de-stiffening effect of antihypertensive treatment: a meta-regression analysis and comparison with acute modulation of transmural pressure
Boguslavskyi, Andrii1; Jiang, Benyu2; Gu, Haotian2; Lu, Yao1; Cecelja, Marina2; Chowienczyk, Phil2
1Guy's and St Thomas' UK, 2King's College London, UK, 33rd Xiangya Hospital, China

3.7 Pulse Wave Velocity is an independent risk factor for cardiovascular events, mortality and decline in renal function in patients with type 1 diabetes
Hansen, Tine Willum; Frimodt-Møller, Marie; Theilade, Simone; Tofte, Neto; Ahluwalia, Tarun Veer Singh; Rossing, Peter
Steno Diabetes Center Copenhagen, Gentofte, Denmark

3.8 Childhood Obesity: Does it have any effect on young arteries?
Hidvégi, Erzsébet Valéria1; Jakab, Andrea Emese2; Illyés, Miklós3; Cziráki, Attila1
1Dr. Jakab & Co. Ltd, Hungary, 2Albert Szent-Györgyi University, Hungary, 3University of Pécs, Hungary

12.30 Young Investigator Session - Grand Auditorium
Chair: P Cunha, R M Bruno
Novel research funding opportunities
Professor Warwick Anderson, Human Frontier Science Program

13.00 Poster Session II and Lunch and Exhibition viewing - Grand Auditorium Foyer - Level 2, Restaurant and Level 1
Poster Session II: Brain (P85 – P94)
Chair: A Avolio, P Cunha
Poster Session II: Epidemiology (P95 – P106)
Chair: E Laugesen, E Rietzschel
Poster Session II: Hypertension III (P107 – P116)
Chair: A Scuteri, E Barbosa
Poster Session II: Hypertension VI (P117 – P125)
Chair: C Sierra, D Gasecki
Poster Session II: Models, Methodologies and Imaging Technology II (P126 – P140)
Chair: B Hametner, S Laurent
Poster Session II: Diabetes, Obesity and Kidney (P141 – P150)
Chair: P Nilsson, K Cruickshank
Poster Session II: Special Populations II (P151 – P160)
Chair: C Vlachlopoulos, W Barroso
Parallel Poster Session I: Other (P161 – P172)
Chair: H Tomiyama, R M Bruno

14.30 Symposium organised in collaboration with Servier - Grand Auditorium
Chair: K Cruickshank, P Boutouyrie
Arterial stiffness as a risk factor for cerebral vascular lesions
Dr Dariusz Gasecki, University of Gdansk, Poland
Arterial aging: how to get from EVA to SUPERNOVA
Professor Stéphane Laurent, Hôpital Européen Georges Pompidou, France

15.30 ORAL SESSION IV - Models, Methodologies and Interventions
Chair: J Baulmann, S Wassertheurer
4.1 Probing arterial stiffness at the nano-scale using the internal mammary artery as a novel target
Akhtar, Riaz1; Chang, Zho2; Hansen, Maria Lyck3; Beck, Hans Christian; Rasmussen, Lars Melholt2
1University of Liverpool, UK, 2Odense University Hospital, University of Southern Denmark, Denmark
| 4.2 Discrepancy between in-vivo measure and ex-vivo calculation of Pulse Wave Velocity in retinal arteries |
| Rezaeian, Mahdieh; Leloup, Arthur; Schulz, Angela; Golzan, Mojtaba; Graham, Stuart; Avolio, Alberto P; Butlin, Mark |
| Macquarie University, Australia, University of Antwerp, Belgium, University of Technology Sydney, Australia |

| 4.3 Whole-body vs. regional arterial stiffness: implications for a single Windkessel model of the circulation |
| Izzo, Joseph; El-sayed, Sherif; Ahmed, Rahill; Osmond, Peter; Gavish, Benjamin |
| University at Buffalo, USA, None |

| 4.4 Can Laser Doppler Vibrometer detect carotid stenosis from skin vibrations? Hydraulic bench tests on patient-specific model |
| Mancini, Viviana; Tommasin, Daniela; Li, Yanlu; Baets, Roel; Greenwald, Stephen; Segers, Patrick |
| Ghent University, Belgium, Queen Mary University of London, London, UK |

| 4.5 Cardiac output estimation from beat-to-beat radial pressure and pulse wave velocity: A model-based study |
| Bikia, Vasiliki; Pagoulatou, Stamata; Papaioannou, Theodore G; Stergiopulos, Nikolaos |
| Swiss Federal Institute of Technology (EPFL), Switzerland, National and Kapodistrian University of Athens, Greece |

| 4.6 Inflammation and aortic stiffness. A multicentre longitudinal study in patients with Inflammatory Bowel Disease |
| Zanoli, Luca; Ozturk, Kadir; Cappello, Maria |
| University of Catania, Italy, Gulhane School of Medicine, Turkey, University of Palermo, Italy |

| 4.7 The effect of transcatheter aortic valve implantation on aortic stiffness and hemodynamics |
| Gardikioti, Vasiliki; Terentes-Printzios, D; Vlachopoulos, C; Toutouzas, K; Xanthopoulou, M; Benetos, G; Latsios, G; Penesopoulou, V; Tsigkou, V; Siasos, G; Vavuranakis, E; Tousoulis, D |
| University of Athens, Greece |

| 4.8 Placental Na/K-ATPase inhibitor marinobufagenin induces arterial wall fibrosis in preeclampsia |
| Fedorova, Olga; Aglakova, Natalia; Grigorova, Yulia; Reznik, Vitaliy; Zernetkina, Valintina; Wei, Wen; Lakatta, Edward; Bagrov, Alexei |
| National Institute on Aging, USA, Sechenov Institute of Evolutionary Physiology and Biochemistry, Russia, School of Pediatric Medicine, Russia |

| 17.00  Refreshments, Poster and Exhibition viewing  - Grand Auditorium Foyer - Levels 1 & 2 |
| 17.30  Focus Update - Grand Auditorium Foyer - Levels 1 & 2 |
| Childhood determinants of arterial dysfunction |
| Chair: A Hughes, J Izzo |
| Arterial function from birth to adolescence and beyond |
| Professor Elaine Urbina, Cincinnati Children’s Hospital Medical Center, Cincinnati, USA |
| Central and peripheral blood pressure |
| Professor Renate Oberhoffer, Technical University of Munich, Germany |

| 18.00  ARTERY Annual Business Meeting  - Grand Auditorium Foyer - Levels 1 & 2 |
| 20.00  Conference Dinner |
| Pousada Mosteiro de Guimarães, Largo Domingos Leite de Castro, 4810-011, Guimarães |
# SATURDAY 20 OCTOBER 2018

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<td><strong>Refreshments, Poster and Exhibition viewing</strong> - Grand Auditorium Foyer - Levels 1 &amp; 2</td>
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| 09.00 | **Debate** - Grand Auditorium  
Chair: S Laurent, T Weber  
*Are Central hemodynamic parameters better prognostic markers than peripheral blood pressure in stroke?*  
**PRO:** Professor Alberto Avolio, *Macquarie University, Australia*  
**CON:** Professor Ernesto Schiffrin, *McGill University, Canada* |
| 09.50 | **Focus Update**  
Chair: P Nilsson, H Tomiyama  
Detection of early vascular aging - EVA. Which markers for which public health actions?  
Professor Ernst R. Rietzschel, *Ghent University, Belgium* |
| 10.10 | **ORAL SESSION V - BRAIN**  
Chair: A Scuteri, C McEniery  
5.1 Stress-induced sympathetic activity and the retinal vasculature: The SABPA prospective study  
Malan, Leoné1; Malan, Nicolaas2; Smith, Wayne2  
1North-West University, 2North-West University, *Potchefstroom, South Africa*  
5.2 Differential characteristics between aortic pressure augmentation and carotid flow augmentation: clinical implications for cerebral white matter hyperintensities  
Hashimoto, Junichiro1; Westerhof, Berend2; Ito, Sadayoshi3  
1Miyagi University of Education Medical Center, Japan, 2VU University, The Netherlands, 3Tohoku University, Japan  
5.3 Carotid artery stiffness increases the risk of incident depressive symptoms: The Paris Prospective Study 3  
van Sloten, Thomas1; Boutouyrie, Pierre2; Tafflet, Muriel1; Offredo, Lucile3; Thomas, Frédérique3; Guibout, Catherine2; Climié, Rachel1; Lemogne, Cedric2; Pannier, Bruno2; Laurent, Stephane3; Jouven, Xavier1; Empana, Jean-Philippe1  
1INSERM, UMR-S970, France., 2Preventive and Clinical Investigation Center, France, 3INSERM, U894, France  
5.4 Age-induced increase in the energy transmitted towards the cerebral circulation as a contributor to impaired brain function  
Pagoulatou, Stamatia1; Mynard, Jonathan2,3; Bikia, Vasiliki1; Chirinos, Julio4; Stergiopulos, Nikolaos1; Segers, Patrick5  
1EPFL, Switzerland, 2Murdoch Children’s Research Institute, Australia, 3University of Melbourne, Australia, 4University of Pennsylvania, USA, 5University of Ghent, Ghent, Belgium  
5.5 Mediator effect of cardiorespiratory fitness on the relationship between arterial stiffness and cognitive function  
Nascimento, Alinne1; Silva, Raquel1; Carvalho, Joana1; Bohn, Lucimere1,2  
1University of Porto, Portugal., 2Instituto Politécnico de Viana do Castelo, Portugal |
| 11.10 | **Refreshments, Poster and Exhibition viewing** - Grand Auditorium Foyer - Levels 1 & 2 |
| 11.40 | **McDonald Lecture** - Grand Auditorium Foyer  
Chair: K Cruickshank, P Cunha  
*The haemodynamic genesis of hypertension*  
Professor Phil Chowienczyk, Kings College London, UK |
| 12.10 | **Lifetime Achievement Award** - Grand Auditorium Foyer  
Chair: K Cruickshank, P Cunha |
| 12.40 | **Concluding Remarks and Close of conference** - Grand Auditorium Foyer |
| 13.00 | **Light lunch** - Centro Cultural Vila Flor |
POSTERS

POSTER SESSION I - BASIC

P1 Determinants of Peripheral Pulse Pressure and Pulse Pressure Amplification
Li, Ye1; Guilcher, Antoine1; Vennin, Samuel1; Alastruey-arimon, Jordi2; Chowienczyk, Phil1
1Department of Clinical Pharmacology, King’s College London, London, UK, 2Biomedical Engineering Department, King’s College London, London, UK

P2 Determination of local pulse wave velocity is not affected by reflection
Li, Ye1; Khir, Ashraf2
1Brunel University, London, UK

P3 Understanding the endothelial – smooth muscle – fibroblastic cells interactions on a tissue-engineered vascular graft
Felizardo, Tatiana1; Neves, Nuno M1; Martins, Albino1; Reis, Rui L
13B’s Research Group, 3B’s – Research Institute on Biomaterials, Biodegradables and Biomimetics, University of Minho, Guimarães, Portugal

P4 Mechanism of Proangiogenic Activity of mitocorrectin on Endothelial Cells in vitro
Nikolaienko, Tetiana1; Nikulina, Victoriiia1; Garmanchuk, Liudmyla1; Makarenko, Oleksander1
1Taras Shevchenko National University of Kyiv, ESC “Institute of biology and medicine”, Kyiv, Ukraine

P5 Regional variations in the micromechanical and biochemical properties of the ovine aorta
Panpho, Phakakorn1,2; Akhtar, Riaz3; Madine, Jill4; Field, Mark6
1School of Engineering, University of Liverpool, UK, 2Faculty of Science and technology, Pibulsongkram Rajabhat University, Phitsanuloke, Thailand, 3School of Engineering, University of Liverpool, UK, 4Institute of Integrative Biology, University of Liverpool, UK, 5Department of Cardiac Surgery, Liverpool Heart and Chest Hospital, UK

P6 Arterial structure and coagulation in ageing Naked Mole Rats
Mgrditchian-Griffio, Takouhie1
1University of Lorraine, Nancy, France

P7 Telomere Length and aortic valve calcification
Saraieva, Ilona1; Toupanse, Simon2,3; Back, Magnus4,5; Athanase, Benetos1,2
1INSERM U1116, Facultet of Medicine, Vandœuvre-lès-Nancy, France, 2Department of Geriatrics, University Hospital of Nancy, Nancy, France, 3Inserm UMR S1116, University of Lorraine, Nancy, France, 4Department of Cardiology, Karolinska Institute, Stockholm, Sweden

P8 The effect of caffeine on mental stress related cardiovascular response
Melik, Ziva1; Cankar, Ksenija2
1University of Ljubljana, Faculty of medicine, Institute of physiology, Ljubljana, Slovenia, 2University of Ljubljana, Faculty of Medicine, Institute of Physiology, Ljubljana, Slovenia

P9 Withdrawn by author

POSTER SESSION I - CLINICAL ASPECTS

P10 Combination of Flow-mediated Dilation and Pulse Wave Velocity provides further cardiovascular risk stratification in patients with Coronary Artery Disease: Flow-Mediated Dilation Japan Study A (FMD-J A)
HIGASHI, YUKIHITO1; Maruhashi, Tatsuya1; Tomiya, Hirofumi2; Takase, Bonpei1; Suzuki, Toru1; Kihara, Yasuki1; Yamashina, Akira6
1Hiroshima University, Hiroshima, Japan, 2Tokyo Medical University, Tokjo, Japan, 3National Defense Medical College Research Institute, Tokorozawa, Japan, 4University of Leicester, Leicester, UK, 5Tokyo Medical University, Tokyo, Japan
P11 Effect of aging on the pressure asymptote and time constant of exponential diastolic aortic pressure decay in humans
Yamakado, Tetsu1
1Suzuka University of Medical Science, Suzuka, Japan

P12 Validation of Synthesized Central Pressure Waveform in Patients with an Infrarenal Aortic Aneurysm Before and After Endovascular Repair
Holewijn, Suzanne1; van der Velde, Lennart1;2; van Helvert, Majorie1;2; Urgert, Thomas1;2; Buitenhuis, Gerike1;2; Groot Jebbink, Erik1;2; Reijnen, Michel1
1Department of Vascular Surgery, Rijnstate, Arnhem, the Netherlands, 2Multimodality Medical Imaging group, Technical Medical Centre, University of Twente, the Netherlands

P13 Vascular and muscle deterioration in older outpatients
Tap, Lisanne1; Kannegieter, Linda1; Flikweert, Antine1; Mattace Raso, Francesco1
1Section of Geriatric Medicine, Department of Internal Medicine, Erasmus Medical Center Rotterdam, Rotterdam, The Netherlands

P14 Reference values of the west Spanish population of the hemodynamic indices evaluated with a new wrist worn device
Gomez-Sanchez, Marta1; Gomez-Sanchez, Leticia2; Alonso-Domínguez, Rosario3; Gonzalez-Sanchez, Jesus4; Agudo-Conde, Cristina5; Sánchez-Aguadero, Natalia5; Rodriguez-Martin, Carmela6; Garcia-Ortiz, Luis7
1Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Salamanca, Spain., 2Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Health, Salamanca, Spain., 3Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Health Service of Castilla y León (SACYL), Salamanca, Spain., 4Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Health Service of Castilla y León Health Service of Castilla y León (SACYL), Salamanca, Spain.

P15 Effect of upright posture on central wave reflection in 637 volunteers not using medications with direct cardiovascular influences: Description of different phenotypes
Pörsti, Ilkka1;2; Wilenius, Matias1;2; Tikkakoski, Antti1;2; Eräranta, Arttu1; Choudhary, Manoj Kumar3;2; Koskela, Jenni1;2; Tahvanainen, Anna1;4; Mustonen, Jukka1;2
1University of Tampere, Finland, 2Tampere University Hospital, Tampere, Finland, 3University of Tampere, Tampere, Finland, 4Heart Hospital of Tampere University Hospital, Tampere, Finland

P16 Pulse Wave Velocity and its association with first cardiovascular events in a Portuguese hypertensive sample
Neves, Clarinda1;2,3; Ricardo Pires, Joana4; Ribau, Verónica4; Mesquita Bastos, José4,5,6
1Clarinda Neves, 2Centro Hospitalar Baixo Vouga, Aveiro, Portugal, 3Departamento de Ciências Médicas, Universidade de Aveiro, Portugal, 4Centro Hospitalar do Baixo Vouga, Aveiro, Portugal, 5ESSUA, Universidade de Aveiro, Portugal, 6CINTESIS

P17 Arterial stiffness of the forearm is associated with nailfold capillary count in systemic sclerosis: a novel marker of early vasculopathy?
van Roon, Anniek1; Eman Abdulle, Amaal1; van Roon, Arie2; van de Zande, Saskia3; Bootsma, Hendrika4; Smit, Andries5; Mulder, Udo6
1University of Groningen, University Medical Center Groningen, Groningen, the Netherlands, 2University of Groningen, University Medical Centre Groningen, Groningen, the Netherlands

P18 Aortic stiffness in aortic stenosis: short term hemodynamic changes after Transcatheter Aortic Valve Implantation
Goudzwaard, Jeanette1; El Faquir, Nahid1; van Mieghem, Nicolas1; de Ronde-Tillmans, Marjo1; Lennen, Mattie1; de Jaegere, Peter1; Mattace-Raso, Francesco1
1Erasmus University Medical Center, Rotterdam, The Netherlands
P19 Effect of Growth Hormone replacement in the vascular system of adult patients with childhood onset hypopituitarism
Biscotto, Isabela; Costa-Hong, Valeria; Bortolotto, Luiz; Carvalho, Luciani
1Hospital das Clínicas da Faculdade de Medicina da Universidade São Paulo, Brasil, 2Instituto do coração, Hospital das Clínicas da Faculdade de Medicina da Universidade São Paulo, Brasil, 3Hospital das Clínicas, da Faculdade de Medicina da Universidade São Paulo, Brasil

P20 Brachial and radial systolic blood pressure are not the same: potential implications for validation protocols including brachial cuff devices and wrist-based wearables
Armstrong, Matthew; Schultz, Martin; Picone, Dean; Sharman, James; Dwyer, Nathan; Roberts-Thomson, Philip; Black, Andrew
1Menzies Institute for Medical Research, University of Tasmania, 2Royal Hobart Hospital

P21 Characterization of an Atherosclerotic Phenotype
Forcada, Pedro; Carlos, Castellaro; Gonzalez, Sergio; Kotliar, Carol; Obregon, Sebastian; Chibault Svane, Jorge

POSTER SESSION I – HYPERTENSION I

P22 The role of renal dysfunction on target organ damage and cardiovascular risk in hypertensives
Solomou, Eirini; Terentes Printzios, Dimitrios; Vlachopoulos, Charalampos; Ioakimidis, N; Aznaouridis, K; Koutagiar, I; Gardikioti, V; Sigala, E; Tousoulis, D
1First Academic Cardiology Clinic, Hippokration General Hospital, Athens, Greece, 21st Cardiology Department, Athens Medical School, Hippokration General Hospital, Athens, Greece

P23 The comparison of prognostic value among ankle brachial pressure index, arterial stiffness and pressure wave reflection in subjects with coronary artery disease
Kimura, Kazutaka
1Tokyo Medical University Ibaraki Medical Center, Ibaraki, Japan

P24 Brachial and central systolic blood pressures from two oscillometric devices (SphygmoCor and Mobil-o-Graph) overestimate high fidelity intra-arterial measurements in children and adolescents: Results: of the KidCoreBP study
Mynard, Jonathan; Goldsmith, Greta; Eastaugh, Lucas; Lane, Geoff; Springall, Gabriella; Avolio, Alberto; Smolich, Joe; Cheung, Michael
1Murdoch Children’s Research Institute, Parkville VIC, Australia, 2University of Melbourne, Parkville VIC, Australia, 3Royal Children’s Hospital, Parkville VIC, Australia, 4Murdoch Childrens Research Institute, Parkville VIC, Australia, 5Royal Children’s Hospital, Parkville VIC, Australia, 6Royal Children’s Hospital, Parville VIC, Australia, 7Murdoch Childrens Research Institute, Parville VIC, Australia, 8Macquarie University, Sydney NSW, Australia, 9University of Melbourne, Parville VIC, Australia

P25 24-hour aortic ambulatory blood pressure is better associated with common carotid artery hypertrophy than 24-hour brachial pressure – the SAFAR study
Argyris, Antonios; Aissopou, Evaggelia; Nasothymiou, Eftymia; Papaioannou, Theodoros; Blacher, Jacques; Safar, Michel; Sfikakis, Petros; Protogerou, Athanase
1Cardiovascular Prevention and Research Unit, Pathophysiology Department, “Laiko” Hospital, National and Kapodistrian University of Athens, Athens, Greece, 2Biomedical Engineering Unit, 1st Department of Cardiology, “Hippokration” Hospital, Medical School, National and Kapodistrian University of Athens, Athens, Greece, 3Paris Descartes University; AP-HP: Diagnosis and Therapeutic Center, Hôtel-Dieu, Paris, France, 41st Department of Propaedeutic Medicine, “Laiko” Hospital, Medical School, National and Kapodistrian University of Athens, Athens, Greece

P26 Withdrawn by author
P27 Invasive central pulse pressure is related to aortic root dilatation
Tosello, Francesco; Guala, Andrea; Leone, Dario; Bollati, Martina; Sabia, Luca; D'Ascenzo, Fabrizio; Moretti, Claudio; Veglio, Franco; Ridolfi, Luca; Milan, Alberto
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P28 Hypertension management decisions may significantly diverge on the basis of brachial versus central blood pressure
Fonseca, Ricardo; Picone, Dean; Schultz, Martin; Sharman, James
1Menzies Institute for Medical Research, University of Tasmania, Hobart, Australia

P29 Mechanisms of Vascular Endothelial Growth Factor inhibition induced hypertension
Maki-Petaja, Kaisa; McGeoch, Adam; Yang, Lucy; Hubsch, Annette; McEniery, Carmel; Mir, Fraz; Gajendragadkar, Parag; Ramenatte, Nicola; Anandappa, Gayathri; Brune, Christoph; Boink, Yoeri; Bibiane-Schonlieb, Carola; Meyer, Paul; Bond, Simon; Wilkinson, Ian; Jodrel, Duncan; Cherian, Joseph
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P30 A 12-week exercise training program reduces endothelial damage in Resistant Hypertension
Lopes, Susana; Garcia, Catarina; Gonçalves, Ana; Ribeiro, Ilda; Barbosa de MElo, Joana; Ribau, Veronica; Figueiredo, Daniela; Viana, João; Bertoquini, Susana; Polónia, Jorge; Mesquita-Bsitos, José; Alves, Alberto; Ribeiro, Fernando
1School of Health Sciences and Institute of Biomedicine - iBiMED, University of Aveiro, Aveiro, Portugal, 2Center of Investigation on Environment Genetics and Oncobiology (CIMAGO), Faculty of Medicine, University of Coimbra, and Center for Neuroscience and Cell Biology and Institute for Biomedical Imaging and Life Sciences (CNC.IBIL), Coimbra, Portugal, 3Center of Investigation on Environment Genetics and Oncobiology (CIMAGO), Faculty of Medicine, University of Coimbra, Coimbra, Portugal, 4Cardiology Department, Hospital Infante D. Pedro, Centro Hospitalar do Baixo Vouga, Aveiro, Portugal, 5School of Health Sciences and CIENCE@UA, University of Aveiro, Aveiro, Portugal, 6Sports Sciences, Health Sciences and Human Development – CIDESE, University Institute of Maia, Maia, Portugal, 77Faculty of Medicine, Medicine of University of Porto, & Hypertension Unit, ULS Matosinhos, Porto, Portugal, 8Faculty of Medicine, University of Porto, & Hypertension Unit, ULS Matosinhos, Porto, Portugal, 9Sports Sciences, Health Sciences and Human Development – CIDESE, University Institute of Maia, Maia, Portugal

P31 Do treatment induced changes in arterial stiffness affect left ventricular structure and function? – A meta-analysis
van der Waaij, Koen; Heusinkveld, Maarten; Delhaas, Tammo; Kroon, Abraham; Reesink, Koen
1Department of Biomedical Engineering and Internal Medicine, CARIM School for Cardiovascular Diseases, The Netherlands, 2Department of Biomedical Engineering, CARIM School for Cardiovascular Diseases, Maastricht, The Netherlands, 3Department of Internal Medicine, CARIM School for Cardiovascular Diseases, Maastricht, The Netherlands

P32 Determining cardiac and arterial contributions to central Pulse Pressure
Vennin, Samuel; Li, Ye; Willemet, Marie; Fok, Henry; Gu, Haotian; Charlton, Peter; Alastruey, Jordi; Chowienczyk, Phil
1King’s College London
P33 Orthostatic changes of central blood pressure in hypertensive patients with carotid artery stenosis
Gurevich, Alexandra1; Emelyanov, Igor2; Chernov, Artemiy2; Chernyavskiy, Mikhail2; Savello, Alexander2; Konradi, Alexandra2
1Almazov National Medical Research Centre, Saint-Petersburg, Russia, 2Almazov National Medical Research Centre, Saint-Petersburg, Russia

POSTER SESSION I – HYPERTENSION II

P34 Determinants of peripheral wave reflection in a large treated hypertensive population
Bortolotto, Luiz1; Kosa, Eva2; Mendes, Nadja2; Costa-Hong, Valeria2
1Hypertension Unity, InCor (Heart Institute), Hospital das Clinicas da FMUSP, 2Hypertension Unity, InCor (Heart Institute), Hospital das Clinicas FMUSP

P35 Arterial stiffness and chronic stress: role of gender - Rigidità arteriosa e stress cronico: ruolo del genere
Gherardini, Rachele1,2
1AOUP, Pisa, Italia, 2Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy

P36 Pulse wave velocity (PWV) responses to 3 months of yoga poses and respiratory control (ujjayi pranayama) in hypertensive post menopause women: randomized clinical trial
Fetter, Cláudia1; Eibel, Bruna1; Boll, Liliana1; Barbosa, Eduardo1; Irigoyen, Maria Cláudia2
1Instituto de Cardiologia/Fundaçao Universitaria de Cardiologia, Porto Alegre, RS/Brazil (ARDI Group), 2Instituto de Cardiologia/Fundaçao Universitaria de Cardiologia, Porto Alegre, RS/Brazil (ARDI Group), Universidade de Sao Paulo (USP), Sao Paulo, SP/Brazil

P37 Pulse wave velocity: dependence on contemporaneous and historical blood pressure components
Keehn, Louise1; Cecelja, Marina1; Chowienczyk, Phil1
1Kings College London

P38 Differences in form factor calculated from oscillometric or waveform Mean Arterial Pressure
Park, Chloe1; Tillin, Therese1; Chaturvedi, Nish1; Hughes, Alun1
1MRC Unit for Lifelong Health and Ageing at UCL, Department of Population Science & Experimental Medicine, Institute of Cardiovascular Science, Faculty of Population Health Sciences, UCL, London UK.

P39 Acute responses of pulse wave reflection after Aerobic Exercise with different volumes
Lima, Tainah1; Cunha, Felipe1; Monteiro, Wallace1; Farinatti, Paulo1; Neves, Mário1
1State of Rio de Janeiro University, Rio de Janeiro, Brazil

P40 Effect of antiangiogenetic drugs on micro- and macrocirculation in patients with advanced-stage renal cancer
Bevilacqua, Michele1,2; Dalbeni, Andrea3; Fava, Cristiano1; Ciccarese, Chiara4,5; Meneguzzi, Alessandra6; Montagnana, Martina5; Viapiana, Ombretta6; Rossini, Maurizio6; Iacovelli, Roberto5; Mantovani, Anna2; Famà, Federico2; Minuz, Pietro2
1MD, University of Verona, Italy, 2Department of Medicine, General Medicine and Hypertension Unit, University of Verona, 3PhD, MD, University of Verona, 4MD, University of Verona, 5Department of Medicine, Oncology Unit, University of Verona, 6Department of Medicine, Section of Internal Medicine, University Laboratory for Medical Research (LURM) and Regional Centre for the Study of Platelets, University of Verona, Verona, Italy, 7Department of Neurosciences, Biomedicine and Movement Sciences, Section of Clinical Biochemistry, University of Verona, Verona, Italy, 8MD, Department of Medicine, Rheumatology Unit, University of Verona, 9Department of Medicine, Rheumatology Unit, University of Verona
P41 Increased stiffness in the digital arteries of essential hypertensive women: the FUCHSIA study
Bruno, Rosa Maria; Di Lascio, Nicole; Vitali, Saverio; Rossi, Piercarlo; Gherardini, Rachele; Taddei, Stefano; Faita, Francesco; Caramella, Davide; Ghiadoni, Lorenzo
1University of Pisa, Italy, 2INSERM U970, Paris, France, 3Institute of Clinical Physiology - CNR, Pisa, Italy, 4University of Pisa, Pisa, Italy

P42 Comparative analysis of the influence of different combinations of antihypertensive drugs on arterial stiffness in patients with arterial hypertension of high and very high cardiovascular risk
Fedorishina, Olga; Protasov, Konstantin; Torunova, Anna
1Irkutsk Medical Academy of Continuing Professional Education, Irkutsk, Russia, 2Irkutsk State Medical Academy of Postgraduate Education, Irkutsk, Russia, 3Irkutsk State Medical Academy of Postgraduate Education, Irkutsk, Russia, 4Irkutsk State Medical Academy of Postgraduate Education, Irkutsk, Russia

P43 Masked Hypertension and retinal vessel structure and function in young healthy adults: the African-PREDICT Study
Ramoshaba, Nthai; Huisman, Hugo; Lammertyn, Leandi; Kotliar, Konstantin; Schutte, Aletta; Smith, Wayne
1Hypertension in Africa Research Team (HART), North-West University, Potchefstroom, South Africa, 2South African Medical Research Council, Unit for Hypertension and Cardiovascular Disease, North-West University, Potchefstroom, South Africa, 3Department of Biomedical Engineering and Technomathematics, Aachen University of Applied Sciences, Juelich, Germany

P44 Central hemodynamic profile, target organ damage and blood pressure control in high risk hypertensives
Luís, Joana; Guimarães Cunha, Pedro
1Center for the Research and Treatment of Arterial Hypertension and Cardiovascular Risk, Serviço de Medicina Interna do Hospital da Senhora da Oliveira, Guimarães, Portugal, 2School of Medicine, University of Minho, Braga, Portugal, 3Life and Health Science Research Institute (ICVS), School of Medicine, University of Minho, Guimarães, Portugal, 4ICVS/3B's, PT Government Associate Laboratory, Braga/Guimarães, Portugal

P45 Impedance cardiography evaluation in elderly hypertensive patients
Ferreira da Silva, Francisco; Marques da Silva, Pedro
1Hospital CUF Descobertas, Lisboa, Portugal, 2Hospital de Santa Marta - Centro Hospitalar de Lisboa Central, Lisboa, Portugal

POSTER SESSION I - MODELS, METHODOLOGIES AND IMAGING TECHNOLOGY I

P46 Elongation of the proximal aorta during the cardiac cycle plays an important role in the estimation of aortic compliance
Pagoulatou, Stamatia; Ferraro, Mauro; Trachet, Bram; Bikia, Vasiliki; Adamopoulos, Dionysios; Stergiopoulos, Nikolaos
1EPFL, Lausanne, Switzerland, 2EPFL, Lausanne, Switzerland, 3Geneva University Hospitals, Geneva, Switzerland

P47 Abnormal flow pattern in Marfan patients is related to aortic geometric features: a 4D flow MRI study
Guala, Andrea; Teixido-Tura, Gisela; Rodriguez-Palomares, Jose; Ruiz-Muñoz, Aroa; Garcia-Dorado, David; Evangelista, Artur
1Hospital Vall d’Hebron, Department of Cardiology. VHlR, Universitat Autònoma de Barcelona, Barcelona, Spain

P48 Comparison between invasive and non-invasive Methods: to evaluate aortic stiffness by pulse wave velocity
Grillo, Andrea; Moretti, Francesco; Scalise, Filippo; Faini, Andrea; Rovina, Matteo; Salvi, Lucia; Baldi, Corrado; Sorropago, Giovanni; Milleseesse, Sandrine; Carretta, Renzo; Avolio, Alberto; Salvi, Paolo; Parati, Gianfranco
1University of Milano-Bicocca, Milano, Italy, 2University of Pavia, Pavia, Italy, 3Policlinico di Monza, Monza, Italy, 4IRCCS Istituto Auxologico Italiano, Milan, Italy, 5University of Trieste, Trieste, Italy, 6Pulse Wave Consulting, St Leu La Foret, France, 7Macquarie University, Sydney, Australia, 8Istituto Auxologico Italiano, Milan, Italy, 9University of Milano-Bicocca, Milan, Italy
P49 Quantifying wave reflection in children: Invasive vs non-invasive central augmentation index and reflection magnitude and their association with left ventricular mass

Mynard, Jonathan 1; Goldsmith, Greta; Kowalski, Remi; Eastaugh, Lucas; Lane, Geoff; Springall, Gabriella; Smolich, Joe; Avolio, Alberto; Cheung, Michael
1 Murdoch Children's Research Institute, Parkville VIC, Australia, 2 University of Melbourne, Parkville VIC, Australia, 3 Royal Children's Hospital, University of Melbourne, Parkville VIC, Australia, 4 Murdoch Childrens Research Institute, Parkville VIC, Australia, 5 Royal Children's Hospital, Parkville VIC, Australia, 6 Macquarie University, Sydney NSW, Australia

P50 Validation of Ultrasound Determination of local Pulse Wave Velocity in the Human Ascending Aorta against MRI Measurements

Negoita, Madalina; Manisty, Charlotte; Bhuva, Anish; Hughes, Alun; Parker, Kim; Khir, Ashraf
1 Brunel Institute of Bioengineering, Brunel University London, UK, 2 Institute of Cardiovascular Science, University College London, UK, 3 Department of Bioengineering, Imperial College London, UK

P51 Non-contact measurement of local carotid and carotid-femoral pulse wave velocity by laser Doppler vibrometry: validation of a new device against reference techniques in hypertensive patients

Marais, Louise; Aasmul, Soren; Baets, Roel; De Melis, Mirko; Greenwald, Stephen; Khettab, Hakim; Li, Yanlu; Prinzen, Frits; Reesink, Koen; Segers, Patrick; Boutouyrie, Pierre
1 PARCC - INSERM U970, Georges Pompidou European Hospital, Paris, France, 2 Medtronic Bakken Research Center, Maastricht, Netherlands, 3 Photonics Research Group, INTEC, Ghent University - IMEC, Ghent, Belgium, 4 Blizzard Institute, Queen Mary University of London, London, UK, 5 CARIM, Maastricht University Medical Center, Maastricht, Netherlands, 6 bioMMeda – Institute Biomedical Technology, Ghent University, Ghent, Belgium

P52 Estimating Central Blood Pressure from MRI data using reduced-order computational models

Mariscal Harana, Jorge; Charlton, Peter; Vennin, Samuel; van Engelen, Arna; Schneider, Torben; Florkow, Mateusz; de Bliek, Hubrecht; Ruijsink, Bram; Valverde, Israel; Charakida, Marietta; Pushparajah, Kuberan; Sherwin, Spencer; Botnar, Rene; Alastrauey, Jordi
1 City and Guilds Building, Imperial College London, London, UK, 2 School of Biomedical Engineering and Imaging Sciences, King's College London, London, UK, 3 Biomedical Imaging Group Rotterdam, Departments of Radiology and Medical Informatics, Erasmus MC, The Netherlands, 4 Philips Healthcare, Guildford, UK, 5 HSDP Clinical Platforms, Philips Healthcare, Best, the Netherlands

P53 Zero flow pressure (Pinfinity) is larger than mean circulatory filling pressure. A systematic review and meta-analysis

Hughes, Alun; Parker, Kim; Khir, Ashraf
1 Department of Population Science & Experimental Medicine, Institute of Cardiovascular Science, University College London, UK, 2 MRC Unit for Lifelong Health and Ageing at UCL, University College London, UK, 3 Department of Bioengineering, Imperial College London, UK, 4 Brunel Institute for Bioengineering, Brunel University, UK

P54 A machine learning system for Carotid Plaque Vulnerability Assessment based on ultrasound images

Di Lascio, Nicole; Kusmic, Claudia; Solini, Anna; Lionetti, Vincenzo; Faita, Francesco
1 Institute of Clinical Physiology, CNR, Pisa, Italy, 2 Institute of Life Sciences, Scuola Superiore Sant'Anna, Pisa, Italy, 3 Department of Surgical, Medical, Molecular, and Critical Area Pathology, University of Pisa, Pisa, Italy

P55 Effects of carotid pressure waveform obtained in different ways on the Results: of wave separation, wave intensity and reservoir pressure analysis

Di Lascio, Nicole; Gemignani, Vincenzo; Bruno, Rosa Maria; Bianchini, Elisabetta; Francesconi, Martina; Stea, Francesco; Ghiadoni, Lorenzo; Faita, Francesco
1 Institute of Clinical Physiology, CNR, Pisa, Italy, 2 Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy

P56 Central Pulse Pressure is associated with retinal arteriolar wall thickness and wall cross sectional area as evaluated by Adaptive Optics

Gallo, Antonio; Dietenbeck, Thomas; Kachenoura, Nadia; Carreau, Valérie; Paques, Michel; Girerd, Xavier
1 Cardiovascular Prevention Unit, University Hospital Pitié-Salpêtrière, Paris, France, 2 Sorbonne Université, INSERM, Laboratoire d’Imagerie Biomédicale, Paris, France, 3 Cardiovascular Prevention Unit, University Hospital Pitié-Salpêtrière, Paris, France, 4 Institut de la vision - Centre d’Investigation Clinique 503 Centre Hospitalier National des Quinze-Vingts, Assistance Publique-Hôpitaux de Paris, Paris, France
POSTER SESSION I - INTERVENTIONS

P57 Polyphenols in cocoa-rich chocolate improve vascular function, the Ventricle-Arterial Coupling and performance of young and healthy adults
Pereira, Telmo1; Bergqvist, Jacqueline2; Sveålv, Bente3; Castanheira, Joaquim4; Conde, Jorge4
1Polytechnic Institute, Coimbra Health School, 2University of Gothenburgh - Sahlgrenska Academy, 3Gothemburg University - Sahlgrenska Academy, 4Polytechnic Institute - Coimbra Health School

P58 Single-port thoracoscopic sympathicotomy for treatment resistant Raynaud’s phenomenon: first report of a novel minimally invasive endoscopic technique
van Roon, Annielk1; Kuipers, Michiel1; van de Zande, Saskia1; van Roon, Arie1; Mariani, Massimo1; Bos, Reinhard2; Bootsma, Hendrika1; Klinkenberg, Theo1; Smit, Andries1; Mulder, Udo1
1University of Groningen, University Medical Center Groningen, Groningen, the Netherlands, 2Medical Center Leeuwarden, Leeuwarden, the Netherlands

P59 Know your Vascular Age: A feasibility study on a new service in community pharmacies
Maximiano, Sofia1; Soares, Patrícia2; Rosa, Mariana2; Pinto, Ana3; Mendes, Maria3; Brito, Joana3; Gose, Sonja5; Risse, Johannes5; Pereira, Telmo5; Maldonado, João6; Paulino, Ema2
1Farmácias Holon, Lisboa, Portugal, 2Farmácias Holon, Lisbon, Portugal, 3McKesson Europe AG, 4I.E.M. GmbH, Stolberg, GERMANY, 5Instituto Politécnico de Coimbra – Coimbra Health School, Coimbra, PORTUGAL, 6Clínica da Aveleira, Coimbra, Portugal

P60 Influence of anger on endothelial dysfunction in patients with recent myocardial infarction
Eibel, Bruna1; Quadros, Alexandre2; Schmidt, Karine3; Gottschall, Carlos4; Moura, Márcia5
1Instituto de Cardiologia/Fundação Universitária de Cardiologia, Porto Alegre, RS/Brazil (ARDI Group), 2ic, 3Instituto de Cardiologia/Fundação Universitária de Cardiologia, Porto Alegre, RS/ Brazil

P61 Arterial Stiffness is associated with Aortic Valve Calcifications
Terentes-Printzios, Dimitrios1; Gardikioti, Vasiliki1; Vlachopoulos, Charalambos1; Toutouzas, Konstantinos1; Xanthopoulou, Maria1; Penesopoulou, Vasiliki1; Latsios, Georgios1; Tsigkou, Vicky1; Kalantzis, Charalambos1; Siasos, Gerasimos1; Vavuranakis, Manolis1; Tousoulis, Dimitrios1
1Hypertension and Cardiometabolic Syndrome Unit, 1st Department of Cardiology , Medical School, National and Kapodistrian University of Athens, Hippokration Hospital , Athens , Greece.

P62 Dapagliflozin preserves renal vasodilating capacity in hypertensive patients with type 2 diabetes
Bruno, Rosa Maria1,2; Giannini, Livia3; Dardano, Angela1; Biancalana, Edoardo1; Tagdei, Stefano3; Ghiadoni, Lorenzo1; Solini, Anna4
1University of Pisa, Italy, 2INSERM U970, Paris, France, 3University of Pisa, Pisa, Italy

P63 Modification of sympathetic tone by renal artery denervation causes early, significant and sustained arterial de-stiffening
Berukstis, Andrius1; Neveuarkaitse-Pilponiene, Gintare2; Misonis, Nerijus1; Juknevicius, Vytautas2; Balsyte, Jurate1; Laukevicius, Aleksandras1
1Vilnius University, Faculty of Medicine, Vilnius, Lithuania; 2Vilnius University Hospital Santaros Klinikos, Vilnius, Lithuania; 2Vilnius University Hospital Santaros Klinikos, Vilnius, Lithuania., 2Vilnius University, Faculty of Medicine

P64 Coronary artery revascularization in patients with chronic stable multivessel coronary disease and Left Main Coronary Artery stenosis
Tolpygina, Svetlana1; Martsevich, Sergei1; Deev, Alexander1
1National Medical Research Center for Preventive Medicine of the Ministry of Healthcare of the Russian Federation, Moscow, Russia

P65 Remote ischaemic preconditioning reduces kidney injury in vascular surgery
Kepler, Teete1; Kuusik, Karl1; Lepner, Urmass1; Starkopf, Joel1; Zilmer, Mihkel1; Eha, Jaan2; Torop, Liisi Anette2; Kals, Jaak1,5
1Department of Surgery, Institute of Clinical Medicine, University of Tartu, 2Department of Cardiology, Institute of Clinical Medicine, University of Tartu, 3Department of Surgery, Institute of Clinical Medicine, University of Tartu., 4Department of Anaesthesiology and Intensive Care, Institute of Clinical Medicine, University of Tartu., 5Department of Biochemistry, Institute of Biomedicine and Translational Medicine, Centre of Excellence for Genomics and Translational Care, University of Tartu., 6Department of Neurology, Institute of Clinical Medicine, University of Tartu.
P66 Reduction in Augmentation Pressure is associated with improvement of early ventricular ejection after aortic valve replacement
Gu, Haotian1; Rajani, Ronak2; Chowienczyk, Phil1
1King’s College London, London, UK, 2St Thomas’ Hospital, London, UK

POSTER SESSION I – SPECIAL POPULATIONS I

P67 Unreliable pulse wave velocity values provided by algorithm-based device: a study in Marfan syndrome
Furlanis, Giulia1; Salvi, Paolo2; Grillo, Andrea3; Salvi, Lucia4; Pintassilgo, Inês5; Bungaro, Elisabetta6; Gaetano, Raffaella7; Marelli, Susan8; Carretta, Renzo9; Pini, Alessandro9; Parati, Gianfranco9,2
1University of Trieste, Trieste, Italy, 2IRCCS Istituto Auxologico Italiano, Milan, Italy, 3University of Milano-Bicocca, Milano, Italy, 4University of Pavia, Pavia, Italy, 5Hospital Garcia de Orta, Almada, Portugal, 6University of Milan, Milan, Italy, 7IBIM CNR Istituto di Biomedicina e Immunologia Molecolare A. Morro, Palermo, Italia, 8Cardiologia, ASST Fatebenefratelli Sacco, Milan, Italy, 9University of Milano-Bicocca, Milan, Italy

P68 The hidden predictor of cardiovascular outcome
Sousa, José1; Lopes, João1; Reis, Liliana1; Madeira, Marta1; Lourenço, Carolina1; Gonçalves, Lino1
1Hospital Geral, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal

P69 Relationship between carotid intima-media thickness, endothelial function, aortic stiffness and cardiovascular events among metabolic syndrome subjects
Ryliskytė, Ligita1;2; Navickas, Rokas1;2; Puronaitė, Romana1;2; Jucevičienė, Agnė1; Laurencius, Aleksandras1;2
1Vilnius University Hospital Santaros Klinikos, Vilnius, Lithuania, 2Vilnius University, Vilnius, Lithuania

P70 Finger-toe Pulse Wave Velocity (ftPWV) measured by pOpmètre® device in patients with Ankylosing Spondylitis
Alanis-Sánchez, Guillermo1; Ramos-Becerra, Carlos2; Cardona-Muñoz, Ernesto3; Castañeda-Zaragoza, Diego3; Cardona-Muller, David4; Khettab, Hakim5; Laurent, Stephen6; Boutouyrie, Pierre7; Obeid, Hasan8; Hallab, Magid9,10; Diaz-Rizo, Valeria10
1MSc Student, West Lab ICORD, University of British Columbia, Canada, 2University of Guadalajara, Department of Physiology, Arterial Stiffness, 3Arterial Stiffness Laboratory, Department of Physiology, University of Guadalajara, Mexico, 4Inserm U970, Paris, France Paris Descartes University and HEGP, Paris, France, 5Inserm U970, Paris, France (2) Paris Descartes University and HEGP, Paris, France, 6Centre Hospitalier Universitaire de Nantes Pôle de Gérontologie Clinique, Nantes, France

P71 Troponin increase and subendocardial oxygen supply and demand imbalance in Cardiac Amyloidosis
Salvi, Lucia1; Salvi, Paolo2; Grillo, Andrea2; Parati, Gianfranco2; Banfi, Francesco2; Perlini, Stefano2
1Department of Internal Medicine, IRCCS Policlinico San Matteo Foundation University of Pavia, Pavia, Italy, 2Istituto Auxologico Italiano, Milano, Italy, 3Department of Internal Medicine and Therapeutics, Policlinico San Matteo Foundation, University of Pavia, Italy

P72 Aortic pulse wave velocity in patients with COPD: 5-year data from the ARCADE study
Gale, Nichola1; Al Shezawi, Mahfouda1; Munnery, Maggie2; Mcdonnell, Barry2; Cockcroft, John2
1Cardiff University, 2Cardiff Metropolitan University

P73 Aortic but not peripheral pulse wave velocity is improved after Heart Rate targeted aerobic Physical Training in Metabolic Syndrome subjects
Slivovskaja, Ieva1; Balsyte, Jurate2; Ryliskyte, Ligita3; Badariene, Jolita4; Navickas, Rokas2; Laurencius, Aleksandras3
1Vilnius University, Faculty of Medicine, Vilnius, Lithuania; State Research Institute Centre For Innovative Medicine, Vilnius, Lithuania, 2Vilnius University, Faculty of Medicine, Vilnius, Lithuania; State Research Institute Centre For Innovative Medicine, Vilnius, Lithuania, 3Vilnius University, Faculty of Medicine, Vilnius, Lithuania, 4Vilnius University, Faculty of medicine, Vilnius, Lithuania.
P74 Sleep quality is associated with cerebrovascular function in individuals with multiple sclerosis
Grigoriadis, Georgios1; Rosenberg, Alexander J.2; Wee, Sang Ouk3; Schroeder, Elizabeth C.2; Griffith, Garet2; Baynard, Tracy2
1University of Illinois at Chicago, Chicago, Illinois, 2University of Illinois at Chicago, Chicago, IL, 3California State University, San Bernardino, San Bernardino, CA

P75 Differential elastin degradation and micromechanical properties in ascending aortic aneurysm groups: statistical modelling
Chim, Ya Hua1; Davies, Hannah1; Diaz De la O, Francesco2; Field, Mark4; Madine, Jill1; Akhtar, Riaz1
1School of Engineering, University of Liverpool, Liverpool, UK, 2Institute of Integrative Biology, University of Liverpool, Liverpool, UK, 3Institute for Risk and Uncertainty, University of Liverpool, Liverpool, UK, 4Department of Cardiac Surgery, Liverpool Heart and Chest Hospital, Liverpool, UK

P76 Carotid thermal heterogeneity and dyslipidemia: the heat is on
Koutagiar, Iosif1; Vlachopoulos, Charalambos2; Terentes-Printzios, Dimitrios2; Skoumas, Ioannis2; Sigala, Evangelia2; Gardikioti, Vasiliki2; Pantou, Stavroula2; Rigatou, Angeliki2; Ioakeimidis, Nikolaos2; Georgakopoulos, Christos2; Skliros, Nikitas-Alexandros2; Benetos, Georgios2; Galanakos, Spiros2; Tousoulis, Dimitrios2
1Hippokrateion Hospital, Medical School University of Athens, Athens, Greece, 2Hippokrateion Hospital, Medical School, University of Athens, Athens, Greece

P77 Targeted lipidomics of arterial stiffness and hemodynamics in atherosclerosis
Paapstel, Kaido1; Kals, Jaak1; Eha, Jaan1; Tootsi, Kaspar1; Ottas, Aigar1; Piir, Anneli1; Zilmer, Mihkel1
1University of Tartu, Tartu, Estonia

P78 Pressure-independent role of the autonomic nervous system in the regulation of arterial stiffness in subjects with essential hypertension
Faconti, Luca1; Farukh, Bushra1; Chowienczyk, Philip J1
1King's College London

P79 Aortic viscoelastic properties and altered electromechanical cardio- aortic connection in patients with Cardiac Amyloidosis
Salvi, Lucia1; Salvi, Paolo3; Grillo, Andrea2; Perlini, Stefano1; Parati, Gianfranco1
1Department of Internal Medicine, IRCCS Policlinico San Matteo Foundation University of Pavia, Pavia, Italy, 2Department of Cardiovascular Neural and Metabolic Sciences, Istituto Auxologico Italiano, 3Department of Cardiovascular Neural and Metabolic Sciences, Istituto Auxologico Italiano

P80 Analysis of endothelial function in male students in southern Brazil: The role of physical activity
Camboim, Marcos Paulo1; Eibel, Bruna2; Pallanda, Lucia3; Neto, Salvador4; Waclawovsky, Gustavo5; Kunrath, Vitor6
1Institute of Cardiology / University Foundation of Cardiology of Rio Grande do Sul (IC / FUC), Porto Alegre, Brasil, 2Institute of Cardiology / University Foundation of Cardiology of Rio Grande do Sul (IC / FUC), Porto Alegre, Brazil, 3Foundation Federal University of Health Sciences of Porto Alegre, Brazil, 4Institute of Cardiology of Rio Grande do Sul, Porto Alegre, Brazil, 5Cardiology Institute of Rio Grande do Sul, Porto Alegre, Brazil, 6Cardiology Institute of Rio Grande do Sul, Porto Alegre, Brazil

P81 The impact of aortic pulsatility ratio and double product on physiological indices of coronary stenosis
Mahmud, Azra1; Ellezni, Amira1; Balghith, Mohammad1; Ayoub, Kamal1; AlGhamdi, Ali1
1King Abdul Aziz Cardiac Center, King Abdul Aziz Medical City, National Guard Health Affairs, Riyadh, Saudi Arabia

P82 Reduction in endothelial, but not microvascular, function during acute inflammation: preliminary results
Schroeder, Elizabeth1; Hilgenkamp, Thessa1; Baynard, Tracy1; Fernhall, Bo1
1University of Illinois at Chicago
**POSTER SESSION II – BRAIN**

**P83 Different protocols for early cardiac rehabilitation modulate the vascular function of individuals undergoing coronary artery bypass grafting: Randomized clinical trial**
Eibel, Bruna1; Waclawovsky, Gustavo1; Boll, Liliana1; Barbosa, Eduardo1; Irigoyen, Maria Cláudia1; Lehnen, Alexandre1
1Instituto de Cardiologia/Fundação Universitária de Cardiologia, Porto Alegre, RS/Brazil - ARtery Disease (ARDI) Group

**P84 Relationship of arterial stiffness and ankle-brachial index**
Dimitrov, Gabriel1; Scandale, Giovanni1; Carzaniga, Gianni2; Recchia, Martino5; Minola, Marzio5; Perilli, Edoardo3; Carotta, Maria1; Catalano, Mariella1
1Research Center on Vascular Diseases and Angiology Unit, University of Milan, 20157 Milan, Italy, 2Research Center on Vascular Diseases and Angiology Unit, University of Milan, Milan, Italy, 3Medistat sas Milan - Italy

**P85 Cerebral Small Vessel Disease and risk of incident stroke, dementia and depression, and all-cause mortality: A systematic review and meta-analysis**
Rensma, Sytze1; van Sloten, Thomas2; Launer, Lenore3; Stehouwer, Coen2
1Maastricht University Medical Centre +, Maastricht, The Netherlands, 2Maastricht University Medical Centre+, Maastricht, The Netherlands, 3National Institutes of Health, Bethesda, USA

**P86 Blunted cerebral microcirculation oxygenation during exercise in newly diagnosed hypertensive patients: links with indices of macrocirculation and arterial stiffness**
Triantafyllou, Areti1; Dipla, Konstantina2; Koletos, Nikolaos1; Zafeiris, Alexandros-Savvas1; Papadopoulos, Stavrinos1; Grigoriadou, Iris1; Gkaliagkousi, Eugenia1; Zafeiris, Andreas1; Douma, Stella1
13rd Dep. of Internal Medicine, Papageorgiou Hospital, Aristotle University of Thessaloniki, Thessaloniki, Greece, 2Dep. of Physical Education and Sports Science at Serres, Aristotle University of Thessaloniki, Serres, Greece

**P87 Cerebrovascular Reactivity during Cognitive Activation in adults with Controlled Hypertension**
Lefferts, Wesley1; DeBlois, Jacob2; Barreira, Tiago2; Heffernan, Kevin2
1University of Illinois at Chicago, 2Syracuse University

**P88 Central pressure in patients with Acute Ischemic Stroke in acute phase: A pilot study**
Paiva, David1; Costa, Ana2; Campos, Ana Luisa2; Gonçalves, Filipa2; Cunha, Pedro2; Cotter, Jorge2
1Hospital Senhora Oliveira, Guimaraes. Portugal, 2Hospital Senhora da Oliveira, Guimaraes. Portugal

**P89 3 Hours uninterrupted sitting increases cerebrovascular resistance and reduces cerebral blood flow in subjects with increased cardiovascular risk**
Hartman, Yvonne1
1Radboud University Medical Center, Nijmegen, the Netherlands

**P90 Kinetic energy and energy loss in the Middle Cerebral Artery (MCA) of HeartMate II patients**
Akiyama, Koichi1; Ji, Ruiping1; Clemons, Autumn1; Castagna, Francesco1; Pinsino, Alberto1; Cockcroft, John R2; Yuzefpolskaya, Melana1; Garan, Reshad1; Takayama, Hiroo1; Takeda, Koji1; Naka, Yoshifumi1; Topkara, Veli1; Willey, Joshua1; McDonnell, Barry J1; Colombo, Paolo1; Stöhrr, Eric3
1Columbia University, New York, USA, 2Cardiff Metropolitan University, Cardiff, UK, 3Columbia University

**P91 The effects of device-guided paced breathing on arterial stiffness: impact of the autonomic nervous system**
Farukh, Bushra1; Facconti, Luca2; Chowienczyk, Phil J3
1King’s College London, Department of Clinical Pharmacology, 2King’s College London, 3King’s College London, department of Clinical Pharmacology. London, UK
P92 Parameters for central blood pressure as predictors for the early clinical and functional outcome after stroke
Holzhauser, Katrin1
1Abteilung für Nephrologie des Klinikums Rechts der Isar (TUM)

P93 Relationship between Aortic Pulse Wave Velocity and Mid Cerebral Artery Pulsatility Index in patients with Chronic Obstructive Pulmonary Disease; pilot data from the ARCADE Study
Al Shezawi, Mahfoudha1; Cockcroft, John2; Munnery, Maggie2; Watkeys, Laura3; Gale, Nichola4; McDonnell, Barry2
1Cardiff University, Cardiff, Wales, UK, 2Cardiff Metropolitan University, Cardiff, Wales, UK

P94 Evaluating central pressure in patients with acute ischemic stroke in acute phase: prognosis and outcome
Costa, Ana1; Paiva, David1; Gonçalves, Filipa3; Campos, Ana3; Cunha, Pedro2; Cotter, Jorge4
1Hospital Sra. da Oliveira, Guimarães, Portugal, 2Hospital da Sra. Oliveira, Guimarães, Portugal, 3Hospital da Sra. Oliveira, Guimarães, Portugal, 4Hospital da Sra. da Oliveira, Guimarães, Portugal

POSTER SESSION II – EPIDEMIOLOGY

P95 Blood Pressure Variability, Arterial Stiffness and Arterial Remodeling - The Maastricht Study
Zhou, Tan Lai1,2; Henry, Ronald1,4,5; Stehouwer, Coen6,7; van Sloten, Thomas6,8,9,10; Reesink, Koen7,11; Kroon, Abraham6,7
1Dept. of Internal Medicine, Maastricht University, Maastricht, The Netherlands, 2Cardiovascular Research Institute Maastricht (CARIM), Maastricht University, Maastricht, The Netherlands, 3Dept. of Internal Medicine, Maastricht University Medical Centre+, Maastricht, The Netherlands, 4Cardiovascular Research Institute Maastricht (CARIM), Maastricht University, The Netherlands, 5Heart and Vascular Centre, Maastricht University Medical Centre +, Maastricht, The Netherlands, 6Department of Internal Medicine, Maastricht University Medical Centre +, Maastricht, The Netherlands, 7Cardiovascular Research Institute Maastricht (CARIM), Maastricht University, The Netherlands, 8Université Paris Descartes, Sorbonne Paris Cité, Faculté de Médecine, Paris, France, 9INSERM, UMR-S970, Paris Cardiovascular Research Center, Department of Epidemiology and Department of Arterial Mechanics, Paris, France, 10Department of Biomedical Engineering, Maastricht University, Maastricht, The Netherlands

P96 Association of metabolic syndrome and its components with arterial stiffness in general population of the EVA study
Agudo-Conde, Cristina1; Gomez-Sanchez, Leticia1; Gomez-Sanchez, Marta1; Alonso-Domínguez, Rosario2; Sánchez-Aguadero, Natalia2; Lugones-Sánchez, Cristina2; Gonzalez-Sanchez, Jesus2; Mora-Simon, Sara2; Recio-Rodriguez, Jose I2
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P97 Family patterns of central haemodynamics across three generations in the Malmö Offspring Study
Nilsson, Peter1; Petersson Rosberg, Erik2
1Lund University, Department of Clinical Sciences, Skane University Hospital, Jan Waldenstroms gata 15, level 5, S-20502 Malmö, Sweden, 2Lund University, Department of Clinical Sciences, Skane University Hospital, Malmö, Sweden

P98 Age and gender differences in variability of wave reflections over 24 hours: The International 24-hour Ambulatory Aortic Blood Pressure Consortium (I24ABC)
Weber, Thomas1; Wasserheuer, Siegfried2; Sharman, James3; Giannatasio, Cristina4; Jankowski, Piotr1; Li, Yan5; Maloberti, Alessandro5; Mcdonnell, Barry7; McEniery, Carmel6; Muisan, Maria Lorentza6; Nemcsik, Janos10; Paini, Anna10; Rodilla, Enrique11; Wilkinson, Ian12; Zweiker, Robert13; Protogerou, Athanase14
1Cardiology Department, Klinikum Wels-Grieskirchen, Wels, Austria, 2Austrian Institute of Technology, Vienna, Austria, 3Menzies Institute for Medical Research, University of Tasmania, Australia, 4University Milano-Bicocca, Milan, Italy, 5Jagellonian University Krakow, Krakow, Poland, 6Shanghai Institute of Hypertension, Shanghai Jiaotong University School of Medicine, Shanghai, China, 7Cardiff Metropolitan University, Cardiff, UK, 8Cambridge University, Cambridge, UK, 9Università di Brescia, Italy, 10Semmelweis University Budapest, Hungary, 11Valencia (Hospital de Sagunto) Universidad CEU Cardenal Herrera, Spain, 12Cambridge University, UK, 13Cardiology Department, Medical University Graz, Austria, 14Department of Pathophysiology Medical School National and Kapodistrian University of Athens, Athens, Greece
P99 Study on the prevalence and determinants of Early Vascular Ageing in a Community Pharmacy setting – preliminary Results: from the THE ASINPHAR@2 action (Arterial Stiffness IN the PHARMacies to (2) action) Project
Pereira, Telmo; Paulino, Ema; Rosa, Mariana; Pinto, Ana; Teixeira, Maria; Soares, Patricia; Maximiano, Sofia; Risse, Johannes; Gose, Sonja
1Polytechnic Institute, Coimbra Health School, 2Holon Pharmacies - Portugal, 3I.E.M. GmbH – Germany

P100 The association between dairy products consumption and arterial stiffness: a meta-analysis
Álvarez-Bueno, Celia; Cavero-Redondo, Iván; Soriano-Cano, Alba; Pozuelo-Carrascosa, Diana P; Notario-Pacheco, Blanca; Jimenez-Lopez, Estela
1Universidad de Castilla-La Mancha, Centro de Estudios Socio-Sanitarios, Cuenca, España, 2Universidad de Castilla-La Mancha, Health and Social Research Center, Cuenca.

P101 Reference values of different parameters of vascular function in Caucasian population without cardiovascular diseases. EVA study
Gomez-Sanchez, Marta; Gomez-Sanchez, Leticia; Lugones-Sanchez, Grisitina; Gonzalez-Sanchez, Jesus; Alonso-Dominguez, Rosario; Recio-Rodriguez, Jose I; Tamayo-Morales, Olaya; Gomez-Marcos, Manuel A
1Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Salamanca, Spain., 2Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center, Salamanca, Spain., 3Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Health Service of Castilla y León (SACYL), Salamanca, Spain., 4Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Salamanca, Spain., 5Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center, Salamanca, Spain.

P102 – Withdrawn by author

P103 Reference values in a representative sample for a certain country
Forcada, Pedro; Castellaro, Carlos; Gonzalez, Sergio; Kotliar, Carol; Obregon, Sebastian; Chiaibaut Svane, Jorge

P104 Influence of age and gender on 24-hour variability of central blood pressure: Findings from the International 24-hour Ambulatory Aortic Blood Pressure Consortium (I24ABC)
Weber, Thomas; Protagorou, Athanase; Wattertheurer, Siegfried; Giannatasio, Cristina; Jankowski, Piotr; Li, Yan; Maloberti, Alessandro; McDonnell, Barry; McEniery, Carmel; Muiesan, Maria Lorenza; Nemcsik, Janos; Paini, Anna; Rodilla, Enrique; Wilkinson, Ian; Zweiker, Robert; Sharman, James
1Cardiology Department, Klinikum Wels-Grieskirchen, Wels, Austria, 2Department of Pathophysiology Medical School National and Kapodistrian University of Athens, Greece, 3Health & Environment Department, Austrian Institute of Technology, Vienna, Austria, 4University Milano-Bicocca, Milano, Italy, 5Jagellonian University, Krakow, Poland, 6Shanghai Institute of Hypertension, Shanghai Jiaotong University School of Medicine, Shanghai, China, 7Cardiff Metropolitan University, Cardiff, UK, 8Experimental Medicine and Immunotherapeutics, University of Cambridge, Cambridge, UK, 9Dipartimento di Scienze Cliniche e Sperimentali, Università di Brescia,Brescia, Italy, 10Semmelweis University, Budapest, Hungary, 11Hospital de Sagunto, Universidad CEU Cardenal Herrera, Valencia, Spain, 12Department of Cardiology, Medical University Graz, Graz, Austria, 13Menzies Institute for Medical Research, University of Tasmania, Hobart, Australia

P105 Pulse pressure amplification and physical activity in young black and white adults: The African-PREDICT study
van Rooyen, Johannes; Kaufman, Anika; Smith, Wayne; Breet, Yolandi
1Hypertension in Africa Research Team (HART), North-West University, Potchefstroom, South Africa and South African Medical Research Council: Unit for Hypertension and Cardiovascular Disease, North-West University, Potchefstroom, South Africa, 2Hypertension in Africa Research Team (HART), North-West University, Potchefstroom, South Africa.

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P106 Relationship between Central Pulse Pressure and urinary sodium excretion in a population-based study in Salvador, Brazil, preliminary results
Magalhaes, Lucelia; Brustolim, Daniele; Da Silva, Diorlene; Lima, Rodrigo; Filho, Antonio; Cunha, Roberta; Gomes, Jamile; Dantas, Raquel
1Faculdade de Medicina Universidade Federal da Bahia and University Center od Faculdade de Tecnologia e Ciencia, 2University Center of FTC, Salvador, Brazil, 3University Center of FTC and Federal University of Bahia, Salvador, Brazil, 4University Center of FTC, Salvador, Brazil, 5University Center of UNIFACS, Salvador, Brazil

POSTER SESSION II – HYPERTENSION III

P107 Renal Denervation improves 24-hour central and peripheral blood pressures, arterial stiffness and peripheral resistance
Ott, Christian; Franzen, Klaas; Graf, Tobias; Weil, Joachim; Schmieder, Roland; Reppel, Michael; Mortensen, Kai
1Department of Nephrology and Hypertension, University of Erlangen-Nürnberg, Erlangen, Germany, 2Medizinische Klinik III, Campus Lübeck, Universitätsklinikum Schleswig-Holstein, Lübeck, Germany, 3Medizinische Klinik II, Campus Lübeck, Universitätsklinikum Schleswig-Holstein, Lübeck, Germany, 4Sana Kliniken Lübeck, Lübeck, Germany, 5Department of Nephrology and Hypertension, University or Erlangen-Nürnberg, Erlangen, Germany, 6Cardiology Landsberg, Landsberg, Germany, 7Cardiology Practice, Kiel, Germany

P108 Anatomic variations of renal arteries in patients with Essential Hypertension: a retrospective study
Lourenço, Jorge; Cabral, Joao; Marado, Daniela; Carvalho, Armando
1Serviço de Medicina Interna, Centro Hospitalar e Universitario de Coimbra, PORTUGAL, 2Serviço de Medicina Interna, Centro Hospitalar e Universitário de Coimbra, PORTUGAL

P109 Reservoir-excess pressure characteristics help identify people with high intra-arterial aortic systolic Blood Pressure
Stoneman, Elif; Picone, Dean; Schultz, Martin; Armstrong, Matthew; Black, Andrew; Dwyer, Nathan; Roberts-Thomson, Philip; Sharman, James
1Menzies Institute for Medical Research, Hobart, Australia, 2Royal Hobart Hospital, Hobart, Australia, 3Menzies Institute for Medical Research

P110 Acute effect of aerobic, resistance, and combined exercise on blood pressure and Vascular Resistance of hypertensive patients: Randomized clinical trial
Waclawowsky, Gustavo; Eibel, Bruna; Boll, Liliana; Schaun, Maximiliano; Barbosa, Eduardo; Lehnen, Alexandre
1Instituto de Cardiologia/Fundação Universitária de Cardiologia, Porto Alegre, RS/Brazil (ARDI Group)

P111 Discrepancy between brachial and invasive intra-aortic pressures in patients undergoing cardiac catheterization
Mahmud, Azra; Alighamdi, Ali; Balghith, Mohammad; Ayoub, Kamal; Khan, Mohammad Fayaz; AlChighouri, Samir; AlMutairi, Fawaz; AlZaibag, Muayad
1King Abdul Aziz Cardiac Center, King Abdul Aziz Medical City, National Guard Health Affairs, Riyadh, Saudi Arabia, 2King Abdul Cardiac Center, King Abdul Aziz Medical City, National Guard Health Affairs, Riyadh, Saudi Arabia

P112 Effect of different types of physical training on the function endothelial in hypertensive individuals
Pedralli, Marinei; Marschner, Rafael; Barbosa, Eduardo; Eibel, Bruna; Lehnen, Alexandre
1Instituto de Cardiologia/Fundação Universitária de Cardiologia, Porto Alegre, RS/Brazil (ARDI Group)

P113 Diurnal rhythm of central blood pressure during twenty-four-hour ambulatory monitoring
Benczur, Bela
1Balassa Janos County Hospital, Ist Dept. of Internal Medicine (Cardiology/Nephrology), Szekszard, Hungary

P114 Application and replicability of bilateral and simultaneous multiple arterial bloodpressure measurements in sedentary and physically active professions
de Groot, Eric
1Imagelabonline and Cardiovascular, Eindhoven, The Netherlands, 2Academic Medical Centre, Clinical Epidemiology, Biostatistics and Bioinformatics, Amsterdam, The Netherlands

Details of all the presenters, authors and copies of the abstracts can be found online: www.arterysociety.org/our-activities/our-conference/artery-18-abstracts/
P115 Leukocyte telomere length and its relation to nitric oxide metabolites in a bi-ethnic sample: the SABPA study
Huisman, Hugo W1; Combrink, Jan-Hendrik2; Mels, Carina3,4; Schutte, Aletta4,5
1North-West University, Hypertension in Africa Research Team, Potchefstroom South Africa, 2Medical Research Council Unit on Hypertension and Cardiovascular Disease; North-West University, Potchefstroom South Africa, 3Hypertension in Africa Research Team, North-West University, Potchefstroom, South Africa, 4Medical Research Council Unit on Hypertension and Cardiovascular Disease, North-West University, Potchefstroom, South Africa, 5Hypertension in Africa Research Team, North-West University, Potchefstroom, South Africa.

P116 Cardiac output is increased in young people with elevated BP
Nardin, Chiara1; Maki-Petaja, Kaisa2; Yasmin, Yasmin3; McDonnell, Barry4; Cockcroft, John R.5; Wilkinson, Ian B.6; McEniery, Carmel M.6
1Department of Medicine, DIMED - University of Padova - Medicina Interna I° - Ca’ Foncello Hospital - Via Ospedale, 31100 Treviso, Italy., 2From Clinical Pharmacology Unit, University of Cambridge, Addenbrooke’s Hospital, Cambridge, UK, 3From Clinical Pharmacology Unit, University of Cambridge, Addenbrooke’s Hospital, Cambridge, UK, 4Wales Heart Research Institute, Cardiff University, University Hospital, Cardiff, UK, 5Wales Heart Research Institute, Cardiff University, University Hospital, Cardiff, UK., 6Clinical Pharmacology Unit, University of Cambridge, Addenbrooke's Hospital, Cambridge, UK.

P117 Arterial stiffness, carotid remodeling and other risk factors determining Coronary Artery Disease in hypertensive patients
Bortolotto, Luiz1; Mendes, Nadja2; Costa-Hong, Valeria3; Cesar, Luiz4
1Hypertension Unity, InCor (Heart Institute), Hospital das Clinicas da FMUSP, 2Hypertension Unity, InCor (Heart Institute), Hospital das Clinicas FMUSP, 3Hypertension Unity, InCor (Heart Institute), Hospital das Clinicas FMUSP, 4Coronary Division, InCor (Heart Institute), Hospital das Clinicas FMUSP

P118 CXCL13 as a novel potential biomarker of essential hypertension
Timasheva, Yanina1; Erdman, Vera2; Nasibullin, Timur2; Tuktarova, Iliyary2; Mustafina, Olga2
1Institute of Biochemistry and Genetics IFRC RAS, 2Institute of Biochemistry and Genetics UFRC RAS, Ufa, Russia

P119 LDL cholesterol is associated with systemic vascular resistance and wave reflection in subjects not using medications with haemodynamic influences
Choudhary, Manoj kumar1,2; Eräranta, Arto2; Tikkkakoski, Antti J.1,4; Koskela, Jenni1; Hautaniemi, Elina1; Kähönen, Mika1,4; Mustonen, Jukka1; Pörsti, Ilkka1,5
1Faculty of Medicine and Life Sciences, University of Tampere, Tampere; Finland, 2Department of Internal Medicine, Tampere University Hospital, Tampere, Finland, 3Department of Internal Medicine, Cardiology unit, Nobel Medical college teaching hospital, Biratnagar,Nepal, 4Department of Clinical Physiology, Tampere University Hospital, Tampere, Finland, 5Department of Internal Medicine, Tampere University Hospital, Tampere, Finland.

P120 Determinants of brachial-ankle Pulse Wave Velocity
Bocskei, Renata1; Benczur, Bela2; Cziraki, Attila1
1Heart Institute, University of Pecs, Pecs, HUNGARY, 2Balassa Janos County Hospital, Ist Dept. of Internal Medicine (Cardiology/Nephrology), Szekszard, Hungary

P121 Association of cardiorespiratory fitness with arterial stiffness and peripheral and central blood pressure in resistant hypertensive patients
Garcia, Catarina1; Lopes, Susana3; Bertoquini, Susana3; Ribau, Verônica3; Leitão, Cátia4; Figueiredo, Daniela3; P Ribeiro, Ilda3; Barbosa de Melo, Joana5; L Viana, João1; Mesquita-Bastos, José5; Polónia, Jorge3; Ribeiro, Fernando1; J Alves, Alberto5
1School of Health Sciences and Institute of Biomedicine - iBiMED, University of Aveiro, Aveiro, Portugal, 2Faculty of Medicine, University of Porto, & Hypertension Unit, ULS Matosinhos, 3Department, Hospital Infante D. Pedro, Centro Hospitalar do Baixo Vouga, Aveiro, 4Department of Physics & I3N and Instituto de Telecomunicacoes, University of Aveiro, 5School of Health Sciences and CINTESIS@UA, University of Aveiro, 6Center of Investigation on Environment Genetics and Oncobiology (CIMAGO), Faculty of Medicine, University of Coimbra, and Center for Neuroscience and Cell Biology and Institute for Biomedical Imaging and Life Sciences (CNC).
P122 The arterial stiffness dynamics under the effect of rosvustatin added to different combinations of antihypertensive drugs
Fedorishina, Olga1; Protasov, Konstantin2; Torunova, Anna3; Scherbakova, Nina4; Petronchak, Natalia4
1Irkutsk Medical Academy of Continuing Professional Education, Irkutsk, Russia, 2“Irkutsk State Medical Academy of Postgraduate Education”,100, microdistrict Yubileyniy, Irkutsk, 664049, Russia, 3Emergency Hospital of the city Angarsk, Angarsk, Russia, 4Emergency Hospital of the city Angarsk, Angarsk, Russia

P123 Unattended and attended BP values and vasculare and cardiac organ damage
Paini, Anna1; Salvetti, Massimo2; Bertacchini, Fabio3; Aggjstui, Carlo4; Cappellini, Sara2; Agabiti Rosei, Enrico2; Muiesan, Maria Lorenza2
1Clinica Medica, Unyversity of Brescia, 2Clinica Medica, University of Brescia

P124 Central Blood Pressure Measurement: paradigm shift
Campos Guimarães Filho, Gilberto1; Kunz Sebba Barroso Sousa, Weimar2
1Universidade Federal De Goiás, Goiânia, Brazil, 2Universidade Federal de Goiás, Goiânia, Brazil

P125 Estimation of Mean Arterial Pressure in non-invasive studies
Park, Chloe1; Tillin, Therese1; Chaturvedi, Nish1; Hughes, Alun1
1MRC Unit for Lifelong Health and Ageing at UCL, Department of Population Science & Experimental Medicine, Institute of Cardiovascular Science, Faculty of Population Health Sciences, UCL, London UK.

POSTER SESSION II – MODELS, METHODOLOGIES AND IMAGING TECHNOLOGY II

P126 The association of the Integrated Central Pressure-Stiffness risk score with cardiovascular mortality in hemodialysis patients
Nemcsik, János1; Batta, Dóra2; Tabáé, Ádám2; Kőrösi, Beáta2; Cseprekál, Orsolya3; Tisler, András2
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P127 Spatial variation of reservoir pressure in children assessed with high fidelity pressure measurement in five aortic locations
Mynard, Jonathan1,2,3; Eastaugh, Lucas4,5; Lane, Geoff6; Goldsmith, Greta4; Springall, Gabriella4; Avolio, Alberto6; Smolich, Joe4,5; Cheung, Michael4,2,5
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P128 Radial intima-media thickness assessment by ultra-high frequency ultrasound and automated image-analysis in healthy volunteers
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P129 Determination of the diastolic pressure decay constant (tau) from radial tonometry: demographic and hemodynamic associations in normal and hypertensive individuals.
Izzo, Joseph1; El-sayed, Sherif2; Ahmed, Rahil2; Osmond, Peter2; Gavish, Benjamin3
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P130 Comparison between PWV measured from cutaneous length by Sphygmocor and by MRI length traced along the whole aorta
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Details of all the presenters, authors and copies of the abstracts can be found online:
P131 Uterine arteries evaluation during pregnancy: modeling and computational fluid dynamics calculations
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P132 Continuous measurements of central blood pressure during mental stress monitoring
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P133 Biomechanical properties of fresh vs embalmed human arteries
Vassilenko, Valentina1,2,3; Serrano, Andreia3,2; Brachetti, Enrico2; Bonifácio, Paulo2,3; O’Neill, João4
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P134 A computational investigation of confounding factors affecting flow mediated dilation: Towards improved endothelial function assessment
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P135 Systemic cardiovascular inputs in models estimating Intracranial Pressure magnitude and waveform
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P136 Simulating myocardial oxygen balance changes due to anti-hypertensive drugs
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P137 Estimating Left Ventricular Elastance from noninvasive aortic flow and brachial pressure measurements
Pagoulatou, Stamati1; Stergiopulos, Nikolaos2
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P138 Influence of ultrasound settings on carotid biomarker assessment by B-mode image processing
Francesconi, Martina1,2; Gemignani, Vincenzo2; Gherardini, Rachele2; Di Lascio, Nicole2; Faita, Francesco2; Ghiadoni, Lorenzo2; Bruno, Rosa Maria2; Bianchini, Elisabetta1
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P139 Automatic classification of arterial and venular trees in colour fundus images
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P141 Telomere dynamics relation with obesity
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P142 Early vascular parameters in the micro- and macrocirculation in Type 2 Diabetes
Ott, Christian1; Kannenkeril, Dennis1; Karg, Marina1; Bosch, Agnes1; Harazny, Joanna1; Schmieder, Roland1

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P143 Reduced levels of anti-ageing hormone Klotho are associated with increased aortic stiffness in patients with Type 2 Diabetes
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P144 Impact of anti-hypertensive drugs on aortic stiffness induced by chronic kidney disease and mineral bone disorder in rats
Agharazii, Mohsen1,2; Ung, Roth-Visal3; Bisson, Sarah-Kim4; Mac-Way, Fabrice5; Richard, Darren E.6; Larivière, Richard7

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P145 Arterial stiffness and Left Ventricular Diastolic Function in patients with metabolic syndrome: Longitudinal study
Solovjova, Svetlana1; Rylishkyte, Ligita2; Puronaitė, Roma3; Celutkiene, Jelena4,5; Laucevicius, Aleksandras6,7; Badriene, Jolita8; Slivovskaja, Ieva9; Rinkuniene, Egidija9

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P146 Analysis of renal artery revascularization in a tertiary care centre
Marques, Pedro1; Flores, Luís2; Carvalho, André3; Sousa, Joel4; Lourenço, Patricia3; Almeida, Jorge4

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P148 Anthropometric measures in intermittent claudication and critical limb ischemia
Ferreira, Joana1; Campos, Jacinta2
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P149 Low carotid arterial stiffness in young Type1 diabetic patients compared with age-matched controls
Giudici, Alessandro1; Palombo, Carlo2; Morizzo, Carmela2; Kozakova, Michaela2; Losso, Lorenzo2; Cruickshank, Kennedy J3; Khir, Ashraf W1
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P150 The impact of arterial stiffness on troponin T levels in chronic haemodialysis patients
Peters, Christian Daugaard1; Kjærgaard, Krista Dytbved1; Jespersen, Bente1; Christensen, Kent Lodberg2; Jensen, Jens Dam1
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POSTER SESSION II – SPECIAL POPULATIONS II

P151 Arterial stiffness response to acute aerobic and resistance exercise in older patients with Coronary Artery Disease
Santos, Vanessa1; Netas, Rafaela1; Borges, Mariana1; Melo, Xavier2; Pinto, Rita1; Angarten, Vitor1; Fernhall, Bo3; Santa-Clara, Helena1
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P152 The effect of surgical aortic valve replacement on aortic stiffness and the prognostic role of aortic stiffness on surgical success
Sigala, Evangelia1; Terentes-Printzios, Dimitrios2; Vlachopoulos, Charalambos3; Triantafillou, Konstantinos4; Koumallos, Nikolaos5; Katsaros, Andreas6; Lozos, Vasilios6; Kouerinis, Ilias6; Giakis, Nikolaos6; Demosthenous, Michael7; Filis, Konstantinos7; Tousoulis, Dimitrios1
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P153 Pulse Wave Velocity distribution in children at a school in the North of Portugal
Formigo, Mariana1; Silva, Cristina1; Formigo, Nuno2,3; Freitas, Sara1; Cunha, Cristina1; Rocha, Margarida1; Neves, Clarisse1; Castro, Laura1; Gonçalves, Filipe1; Cotter, Maria J.4; Cunha, Pedro G.1,5,6; Cotter, Jorge1,5,6
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P154 Does the method of the measurement of blood pressure correlates differently with Pulse Wave Velocity in Resistant Hypertension?
Mesquita Bastos, Jose1,2; Lopes3, Susana3; Garcia4, Catarina4; Ribaul, Verónica4; Bertoquini 5, Susana6; Leitão 6, Cátia7; P. Ribeiro7, Ilda7; Figueiredo2, Daniela8; L. Viana4, João9; Ribeiro3, Fernando10; Polónia 5, Jorge11
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P155 Determinants of Pulse Wave Velocity in children
Silva, Cristina; Formigo, Mariana; Formigo, Nuno; Freitas, Sara; Cunha, Cristina; Rocha, Margarida; Neves, Clarisse; Castro, Laura; Gonçalves, Filipe; Cotter, Maria J.; Cunha, Pedro G.; Cotter, Jorge

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P156 Cardio Ankle Vascular Index (CAVI) as arterial stiffness marker in subjects with ankylosing spondylitis
Alanis-Sánchez, Guillermo; Cardona-Muñoz, Ernesto; Cardona-Müller, David; Totsuka-Sutto, Sylvia; Mares-Flores, Oscar; Murguia-Soto, César; Castañeda-Zaragoza, Diego; Montes-Martínez, David; Ramos-Becerra, Carlos

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P157 Aortic calcifications and inflammation are associated with in-hospital complications in acute coronary syndrome
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P158 Arterial Stiffness in the very old: The AGA@4life research project
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P159 Correlation between inflammatory state and arterial stiffness
Brustolim, Daniele; Magalhaes, Lucelia; Silva, Diorlene; Sant’Ana de Lima, Rodrigo; Louzada Castro, Vinicius; Malta Ribeiro, Daniel; Rodrigues Fidelman, Caroline; Damasceno, Natalia; Vasconcelos, Larissa; Ventura, Caroline; Group, Vasco

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P160 Assessment of carotid pulse wave velocity (carPWV) in patients with Ankylosing Spondylitis
Alanis-Sánchez, Guillermo; Ramos-Becerra, Carlos; Cardona-Müller, David; Quezada-Fernández, Patricia; Pascoe-González, Sara; Murguia-Soto, César; Cardona-Muñoz, Ernesto

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**POSTER SESSION II - OTHER**

**P161 Relationship of fibrinogen with arterial stiffness is different according to gender. EVA study**
Gomez-Sanchez, Leticia1; Gomez-Sanchez, Marta2; Sanchez-Aguadero, Natalia3; Lugones-Sanchez, Cristina4; Patino-Alonso, Maria C4; Mora-Simon, Sara3; Maderuelo-Fernandez, Jose A3; Rodriguez-Sanchez, Emiliano3
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**P162 Arterial stiffness and body composition in children and adolescents**
Cai, Tommy1,2; Meroni, Alice1; Dissanayake, Hasthi1; Phang, Melinda1; Qasem, Ahmad3; Ayer, Julian1,4; Butlin, Mark5; Avolio, Alberto5; Celermajer, David1,5; Skilton, Michael1
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**P163 Regional differences in geometrical features and layer-specific residual stresses in the bovine descending thoracic aorta**
Giudici, Alessandro1; Wilkinson, Ian B.2; Khir, Ashraf W.1
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**P164 Indices to assess aortic stiffness from the finger photoplethysmogram: in silico and in vivo testing**
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**P165 Evaluating carotid femoral pulse wave velocity measured by cuff-based approach against the tonometry-based reference standard in a paediatric population**
Cai, Tommy1,2; Meroni, Alice1; Dissanayake, Hasthi1; Phang, Melinda1; Avolio, Alberto1,5; Celermajer, David1,5; Butlin, Mark5; Skilton, Michael1; Qasem, Ahmad3
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**P166 Aortic Pulsatility, and not Mean Arterial Pressure, is an independent determinant of Left Main Coronary Artery Disease**
Mahmud, Azra1; Balghith, Mohamamd2; Ayoub, Kamal2; Khan, Mohammad Fayaz2; Al-Chighouri, Samir2; AlMutairi, Fawaz2; AlZaibag, Muayed3
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**P167 Acute exercise effects on vascular and autonomic function in patients with stable coronary artery disease**
Angarten, Vitor1; Pinto, Rita2; Santos, Vanessa2; Melo, Xavier2; Sousa, Paula2; Machado, Jose Carlos2; Santa Clara, Helena3
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**P168 Feasibility study of local pulse wave velocity estimation in the carotid artery with multi-beam Laser Doppler Vibrometer**
Tommasin, Daniela1; Li, Yanlu2,3; Reeves, Jonathan4,5; Baets, Roel1,2,3; Greenwald, Steve4; Segers, Patrick1
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P169 Relationship between common Carotid Distensibility/Aortic Stiffness and Left Ventricular morphology and function in rheumatologic patients
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P170 A forehead and nasal bridge pulse oximeter comparison measurements on healthy subjects
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P171 Cardiovascular risk evaluation in Behcet’s patients - The role of chronic inflammation in arterial stiffness
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Ferreira, Joana1
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