

ARTERY 18

ARTERY

Association for Research into
Arterial Structure and Physiology



Final Programme



18-20 October 2018
Centro Cultural Vila Flor
Guimarães, Portugal
www.arterysociety.org



GUIMARÃES
CIDADE
DE *ciência*

Associação de Municípios e Paróquias do Norte
porto en norte



University of Medicine
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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.

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from Servier



ARTERY 18 Scientific Organisers

ARTERY EXECUTIVE COMMITTEE

President & Journal Reviews Editor:	Professor J Kennedy Cruickshank	UK
Vice-President:	Professor Pierre Boutouyrie	France
Secretary:	Professor Siegfried Wassertheurer	Austria
Treasurer:	Professor Patrick Segers	Belgium
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	Professor Pedro Cunha	Portugal
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Ex-officio Member & Journal Editor	Professor Stéphane Laurent	France
Deputy Editor of Journal		

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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

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

FRIDAY 19 OCTOBER 2018

08.00	Refreshments, Poster and Exhibition viewing
08.30	Oral Session II: Young Investigator Award
10.00	Special Guest Lecture: Professor Catherine Shanahan, King's College London, UK
10.30	Refreshments, Poster and Exhibition viewing
11.00	Oral Session III: Clinical Aspects, Hypertension and Diabetes
12.30	Young Investigator Session: Professor Warwick Anderson, Human Frontier Science Program, France
13.00	Poster Session II and Lunch and Exhibition viewing
14.30	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 <i>Symposium organised in collaboration with Servier</i>
15.30	Oral Session IV: Models, Methodologies and Interventions
17.00	Refreshments, Poster and Exhibition viewing
17.30	Focus Update: Professor Elaine Urbina, Cincinnati Children's Hospital Medical Center, Cincinnati, USA Professor Renate Oberhoffer, Technical University of Munich, Germany
18.00	ARTERY Annual Business Meeting
20.00	ARTERY Conference Dinner

SATURDAY 20 OCTOBER 2018

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

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.

08.15 - 08.30	Refreshments and registration
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:
<http://www.arterysociety.org/our-activities/our-conference/artery-18-abstracts/>

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 Henriques, 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 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, Povia 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 Povia 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 jbaulmann@yahoo.com

The ARTERY Society would like to thank Johannes Baulmann for organising the ARTERY Open Golf Tournament.

Charity Partners/Exhibitors

SERVIER

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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)



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ARTERY 19

A R T E R Y

Association for Research into
Arterial Structure and Physiology



10-12 October 2019
Budapest, Hungary
www.arterysociety.org



Scientific Programme

THURSDAY 18 OCTOBER 2018

10.00	Registration - Grand Auditorium Foyer - Level 1
11.00	Welcome address - Grand Auditorium K Cruickshank, President, ARTERY; P Cunha, Chair, Local Organising Committee, ARTERY 18
11.15	Opening Lecture - Grand Auditorium Chair: N Sousa How do Brain Cells control blood flow: insights into neurovascular dysfunction Professor Josef Priller, <i>Universitätsmedizin Berlin, Germany</i>
11.45	Invited Lecture - Grand Auditorium Chair: P Lacolley New drug targets for slowing vascular ageing: SIRT1, SIRT5, JunD and p66Sch Dr Luca Liberale, <i>University of Zurich, Switzerland</i>
12.15	Oral Session I - Grand Auditorium Chair: J Cockcroft, F Mattace-Raso ORAL SESSION I - Epidemiology and Special Populations 1.1 Promotion of arterial stiffness by childhood cancer and its characteristics in adult long-term survivors Arnold, Natalie; Merzenich, Hiltrud; Wingerter, 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 <i>Johannes Gutenberg University Mainz, Germany</i> 1.2 Associations between indicators of Cardiovascular Disease and Pulse Wave Analysis and velocity: A comparison of devices Ellins, Elizabeth ¹ ; Lennon, Lucy ² ; Papacosta, Olia ² ; Wannamethee, Goya ² ; Whincup, Peter ³ ; Halcox, Julian ¹ ¹ Swansea University Medical School, Swansea, UK, ² UCL, London, UK, ³ St George's University of London, UK 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 Nilsson Wadström, Benjamin; Nilsson, Peter; Fatehali, Abd Al-Hakim; Engstrom, Gunnar <i>Lund University, Sweden,</i> 1.4 Prognostic value of proximal aorta longitudinal strain in Marfan Syndrome Guala, Andrea ¹ ; Rodríguez-Palomares, Jose ¹ ; Ruiz-Muñoz, Aroa ¹ ; Gandara, Minerva ¹ ; Sanchez, Violeta ² ; Forteza, Alberto ³ ; Garcia-Dorado, David ¹ ; Evangelista, Artur ¹ ; Teixido-Tura, Gisela ¹ ¹ Hospital Vall d'Hebron, Spain., ² University Hospital ¹² de Octubre, Spain, ³ Hospital Puerta del Hierro, Spain 1.5 Deep Vascular Phenotyping in patients with fibromuscular dysplasia Bruno, Rosa Maria ^{1,2} ; Marais, Louise ² ; Khettab, Hakim ³ ; Lorthioir, Aurélien ³ ; Jeunemaitre, Xavier ^{3,2} ; Laurent, Stéphane ^{3,2} ; Boutouyrie, Pierre ^{3,2} ; Azizi, Michel ³ ¹ University of Pisa, Italy, ² INSERM U970, France, ³ APHP, Hôpital Européen Georges Pompidou, France, 1.6 Aortic Pulse Wave Velocity in Portuguese children and adolescents - Results from the Portuguese Vascular Phenotype in children and adolescents (PORT-VASPh) cohort Pereira, Telmo ¹ ; Maldonado, João ^{1,2} ; Carvalho, Margarida ³ ¹ Polytechnic Institute, Portugal, ² Clínica da Aveleira - Coimbra - Portugal
13.15	Lunch, Poster and Exhibition viewing - Restaurant and Grand Auditorium Levels 1 & 2

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, <i>University of Illinois at Chicago, USA</i> Validation of ultrasound determination of local pulse wave velocity in the human ascending aorta against MRI measurements Dr Madalina Negoita, <i>Brunel University London, UK</i> The regulatory role of coagulation factors on arterial function Dr Jeremy Lagrange, <i>University Medical Center of the Johannes Gutenberg-University Mainz, Germany</i>
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, <i>University of Iowa, USA (North American Artery)</i> LATAM1 Association of pulse wave velocity and body mass index in healthy Mexican population Dr Daniela Avila Novoa, <i>University of Guadalajara, Mexico (LATAM Artery)</i> 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, <i>Jichi Medical University, Japan (Pulse of Asia)</i>
17.30	Invited Lecture - Grand Auditorium Chair: G Mitchell Imaging Neurovascular Coupling: From cortical microinfarcts to hypertension - impact on neuronal structure and function Professor Pablo Blinder, <i>Tel Aviv University, Israel</i>
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 Muesan, 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, Jakub^{2,3,4}; Han, Jinah^{2,3,4}; Sadeghi, Mehran^{2,3,4}; 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, Thomas^{1,2,3}; 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, Edouard²; Plichart, Matthieu²; Offredo, Lucile¹; Guilboud, Catherine¹; van Sloten, Thomas¹; Thomas, Frederique³; Pannier, Bruno³; Sharman, James⁴; Laurent, Stephane¹; Jouven, Xavier¹; Empana, Jean-Philippe¹ ¹INSERM U970, France, ²APHP, Paris Descartes University, France, ³Investigations Préventives et Clini Ques (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, Julia²; Sarafidis, Pantelis A.³; Hagmair, Stefan¹; Lorenz, Georg²; Angermann, Susanne²; Braunisch, Matthias C.²; Baumann, Marcus²; Heemann, Uwe²; Schmaderer, Christoph²; Wassertheurer, 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, Avinash^{1,2}; Smolich, Joe^{1,2}; Cheung, Michael^{1,2,3}; Westerhof, Berend⁴; Westerhof, Nico⁴; Mynard, Jonathan^{1,2,3} 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, Anish^{1,2}; Nadarajan, Niro¹; D'Silva, Andrew³; Torlasco, Camilla⁴; Boubertakh, Redha²; Jones, Siana¹; Scully, Paul^{1,2}; Bastiaenen, Rachel³; Lloyd, Guy²; Sharma, Sanjay⁴; Moon, James^{1,2}; Parker, Kim⁵; Manisty, Charlotte^{1,2}; Hughes, Alun¹ ¹University College 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, Nish²; Smith, George³; Lawlor, Deborah³; Howe, Laura³; Park, Chloe²; Hughes, Alun²; Schultz, Martin¹; Schultz, Martin¹ ¹Menzies Institute for Medical Research, Australia, ²University College 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, Abigail²; Howe, Laura²; Smith, George Davey²; Lawlor, Debbie²; 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, <i>King's College London, UK</i>
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 Lorenza Muiesan, B Benczur 3.1 Strain Discontinuities in Carotid Atherosclerotic Plaques - A novel marker for Plaque Vulnerability? Vonk, Tim^{1,2}; Hermeling, Evelien¹; Schreuder, Floris³; Mess, Werner¹; Kooi, Eline¹ <i>¹Maastricht University Medical Center, The Netherlands, ²Zuyderland Medical Center, The Netherlands, ³Radboud University Medical Center, The Netherlands</i> 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; Östling, Gerd²; Khan, Faisel³; Colhoun, Helen M⁴; Palombo, Carlo⁵; Parker, Kim H⁶; Nilsson, Jan²; Shore, Angela C¹; Hughes, Alun D⁷ <i>¹University of Exeter Medical School, UK, ²Lund University, Sweden, ³University of Dundee, Dundee, UK, ⁴University of Edinburgh, Edinburgh, UK, ⁵University of Pisa, Italy, ⁶Imperial College, London, UK, ⁷Institute of Cardiovascular Science, University College London, London, UK</i> 3.3 Role of arterial stiffness and Blood Pressure variability in the definition of SHATS (Systemic Hemodynamic Atherothrombotic Syndrome) Scuteri, Angelo¹; Rovella, Valentina²; Alunni Fegatelli, Danilo³; Tesauro, Manfredi⁴; Gabriele, Marco²; Di Daniele, Nicola⁴ <i>¹University Hospital Sassari, Italy, ²Policlinico Tor Vergata, Italy, ³University of Rome La Sapienza, Italy, ⁴University of Rome Tor Vergata, Italy</i> 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, Konstantinos²; Terentes-Printzios, Dimitris²; Argyris, Antonis³; Tentolouris, Nikolaos³; Sfikakis, Petros³; Tousoulis, Dimitris² <i>¹CHU Saint Pierre, Belgium, ²University of Athens, Greece, ³Laiko University General Hospital, Greece</i> 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, Nathan¹; Fonseca Diaz, Ricardo¹; Gould, Brian⁶; Hughes, Alun⁷; Kim, Hack-Lyoung⁸; Lacy, Peter⁷; Laugesen, Esben⁹; Muecke, Sandy¹⁰; Ohte, Nobuyuki¹¹; Omboni, Stefano¹²; Ott, Christian¹³; Peng, Xiaoqing¹; Pereira, Telmo¹⁴; Pucci, Giacomo¹⁵; Roberts-Thomson, Philip¹; Rossen, Niklas¹³; Schmieder, Roland¹⁷; Srikanth, Velandai¹; Stewart, Ralph¹⁶; Stouffer, George¹⁷; Sueta, Daisuke¹⁸; Takazawa, Kenji¹⁹; Wang, Ji-Guang²⁰; Weber, Thomas²¹; Westerhof, Berend²²; Williams, Bryan¹⁰; Yamada, Hirotugu²³; Yamamoto, Eiichiro²²; Sharman, James² <i>¹Menzies Institute for Medical Research, Australia, ²Auckland University of Technology, New Zealand, ³St Antonius Hospital, The Netherlands, ⁴National Yang-Ming University, Taiwan, ⁵University Hospital of Bordeaux, France, ⁶BMI Hospital Blackheath, UK, ⁷University College London, UK, ⁸Seoul National University, South Korea, ⁹Aarhus University Hospital, Denmark, ¹⁰Flinders University, Australia, ¹¹Nagoya City University, Japan, ¹²Italian Institute of Telemedicine, Italy, ¹³Friedrich-Alexander University, Germany, ¹⁴Polytechnic Institute of Coimbra, Portugal, ¹⁵University of Perugia, Italy, ¹⁶University of Auckland, New Zealand, ¹⁷University of North Carolina at Chapel Hill, USA, ¹⁸Kumamoto University, Japan, ¹⁹Tokyo Medical University Hospital, Japan, ²⁰Shanghai Jiao Tong University, China, ²¹Klinikum Wels-Grieskirchen, Austria, ²²VU University Medical Center, The Netherlands, ²³Tokushima University Hospital, Japan</i>

	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, Yao³; 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, Nete; 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, Attila³ 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, <i>Human Frontier Science Program</i>
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 Vlachopoulos, 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, <i>University of Gdansk, Poland</i> Arterial aging: how to get from EVA to SUPERNOVA Professor Stéphane Laurent, <i>Hôpital Européen Georges Pompidou, France</i>
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, Zhuo¹; Hansen, Maria Lyck²; Beck, Hans Christian²; 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, Mahdieh¹; Leloup, Arthur²; Schulz, Angela¹; Golzan, Mojtaba³; Graham, Stuart¹; Avolio, Alberto P¹; Butlin, Mark¹

¹Macquarie University, Australia, ²University of Antwerp, Belgium, ³University of Technology Sydney, Australia,

4.3 Whole-body vs. regional arterial stiffness: implications for a single Windkessel model of the circulation

Izzo, Joseph¹; El-sayed, Sherif¹; Ahmed, Rahil¹; Osmond, Peter¹; Gavish, Benjamin²

¹University at Buffalo, USA, ²None

4.4 Can Laser Doppler Vibrometer detect carotid stenosis from skin vibrations? Hydraulic bench tests on patient-specific model

Mancini, Viviana¹; Tommasin, Daniela¹; Li, Yanlu¹; Baets, Roel¹; Greenwald, Stephen²; Segers, Patrick¹

¹Ghent University, Belgium, ²Queen 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, Vasiliki¹; Pagoulatou, Stamatia¹; Papaioannou, Theodore G.²; Stergiopoulos, Nikolaos¹

¹Swiss Federal Institute of Technology (EPFL), Switzerland, ²National and Kapodistrian University of Athens, Greece

4.6 Inflammation and aortic stiffness. A multicentre longitudinal study in patients with Inflammatory Bowel Disease

Zanoli, Luca¹; Ozturk, Kadir²; Cappello, Maria³

¹University of Catania, Italy, ²Gulhane School of Medicine, Turkey, ³University 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, Olga¹; Aglakova, Natalia²; Grigorova, Yulia¹; Reznik, Vitalily³; Zernetkina, Valentina¹; Wei, Wen¹; Lakatta, Edward¹; Bagrov, Alexei²

¹National Institute on Aging, USA, ²Sechenov Institute of Evolutionary Physiology and Biochemistry, Russia,

³School 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

08.30	Refreshments, Poster and Exhibition viewing - Grand Auditorium Foyer - Levels 1 & 2
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, <i>Macquarie University, Australia</i> CON: Professor Ernesto Schiffrin, <i>McGill University, Canada</i>
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, <i>Ghent University, Belgium</i>
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, Pierre¹; Tafflet, Muriel¹; Offredo, Lucile¹; Thomas, Frédérique⁴; Guibout, Catherine¹; Climie, Rachel¹; Lemogne, Cedric³; Pannier, Bruno²; Laurent, Stephane¹; 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, Jonathan^{2,3}; Bikia, Vasiliki¹; Chirinos, Julio⁴; Stergiopoulos, 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, Lucimere^{1,2} 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 Chowienzyk, 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

* All posters will be moderated

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, Ashraf¹

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, ¹3Bs – Research Institute on Biomaterials, Biodegradables and Biomimetics, University of Minho, Guimarães, Portugal

P4 Mechanism of Proangiogenic Activity of mitocorrectin on Endothelial Cells in vitro

Nikolaenko, Tetiana¹; Nikulina, Victoriia¹; 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, Phakakorn^{1,2}; Akhtar, Riaz³; Madine, Jill⁴; Field, Mark⁵

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-Griffo, Takouhie¹

¹University of Lorraine, Nancy, France

P7 Telomere Length and aortic valve calcification

Saraieva, Ilona¹; Toupance, Simon^{2,3}; Back, Magnus^{4,3}; Athanase, Benetos^{3,2}

¹INSERM U1116, Facultet of Medicine, Vandœuvre-lès-Nancy, France, ²Department of Geriatrics, University Hospital of Nancy, Nancy, France, ³Inserm UMRS 1116, 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 1 - 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; Tomiyama, Hirofumi²; Takase, Bonpei³; Suzuki, Toru⁴; Kihara, Yasuki¹; Yamashina, Akira⁵

¹Hiroshima University, Hiroshima, Japan, ²Tokyo Medical University, Tokyo, 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, Lennart^{1,2}; van Helvert, Majorie^{1,2}; Urgert, Thomas^{1,2}; Buitenhuis, Gerike^{1,2}; Groot Jebbink, Erik^{2,1}; 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 MC, University 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, Cristina³; Sánchez-Aguadero, Natalia³; Rodriguez-Martin, Carmela⁵; Garcia-Ortiz, Luis³

¹Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. Salamanca, Spain., ²1. Institute 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, Salamanca, Spain., ⁵1. Institute of Biomedical Research of Salamanca (IBSAL), Primary Health Care Research Unit, La Alamedilla Health Center. 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, Ilkka^{1,2}; Wilenius, Matias^{3,2}; Tikkakoski, Antti^{3,2}; Eräranta, Arttu³; Choudhary, Manoj Kumar^{3,2}; Koskela, Jenni^{3,2}; Tahvanainen, Anna^{3,4}; Mustonen, Jukka^{3,2}

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, Clarinda^{1,2,3}; Ricardo Pires, Joana⁴; Ribau, Verónica⁴; Mesquita Bastos, José^{4,5,6}

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, Saskia²; Bootsma, Hendrika²; Smit, Andries²; Mulder, Udo²

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, Jeannette¹; El Faquir, Nahid¹; van Mieghem, Nicolas¹; de Ronde-Tillmans, Marjo¹; Lenzen, 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, Isabela¹; Costa-Hong, Valeria²; Bortolotto, Luiz²; Carvalho, Luciani³

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, Matthew¹; Schultz, Martin¹; Picone, Dean¹; Sharman, James¹; Dwyer, Nathan²; Roberts-Thomson, Philip²; Black, Andrew²

¹Menzies Institute for Medical Research, University of Tasmania, ²Royal Hobart Hospital

P21 Characterization of an Atherosclerotic Phenotype

Forcada, Pedro¹; Carlos, Castellaro¹; Gonzalez, Sergio²; Kotliar, Carol³; Obregon, Sebastian⁴; Chiabaut Svane, Jorge⁵

¹Cemic, ²Hospital Churrua. Buenos Aires. Argentina, ³Hospital Austral.Buenos Aires.Argentina, ⁴Hospital Austral. Buenos Aires. Argentina, ⁵Hospital Austral.Buenos Aires. Argentina

POSTER SESSION I – HYPERTENSION I

P22 The role of renal dysfunction on target organ damage and cardiovascular risk in hypertensives

Solomou, Eirin¹; Terentes Printzios, Dimitrios²; Vlachopoulos, Charalampos²; Ioakimidis, N²; Aznaouridis, K²; Koutagiar, I²; Gardikioti, V²; Sigala, E²; Tousoulis, D²

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, Kazutaka¹

¹Tokyo Medical University Ibaraki Medical Center, Ibaraki, Japan

P24 Brachial and central systolic blood pressures from two oscillometric devices (Sphygmo-Cor and Mobil-o-Graph) overestimate high fidelity intra-arterial measurements in children and adolescents: Results: of the KidCoreBP study

Mynard, Jonathan^{1,2,3}; Goldsmith, Greta⁴; Eastaugh, Lucas^{4,5}; Lane, Geoff⁶; Springall, Gabriella⁷; Avolio, Alberto⁸; Smolich, Joe^{7,9}; Cheung, Michael^{7,2,6}

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, Antonios¹; Aissopou, Evaggelia¹; Nasothymiou, Efthymia¹; Papaioannou, Theodoros²; Blacher, Jacques³; Safar, Michel³; Sfikakis, Petros⁴; Protogerou, Athanase¹

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P26 – Withdrawn by author

P27 Invasive central pulse pressure is related to aortic root dilatation

Tosello, Francesco¹; Guala, Andrea²; Leone, Dario¹; Bollati, Martina¹; Sabia, Luca¹; D'Ascenzo, Fabrizio³; Moretti, Claudio³; Veglio, Franco¹; Ridolfi, Luca⁴; Milan, Alberto¹

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P28 Hypertension management decisions may significantly diverge on the basis of brachial versus central blood pressure

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P29 Mechanisms of Vascular Endothelial Growth Factor inhibition induced hypertension

Maki-Petaja, Kaisa¹; McGeoch, Adam²; Yang, Lucy¹; Hubsch, Annette¹; McEniery, Carmel¹; Mir, Fraz¹; Gajendragadkar, Parag¹; Ramenatte, Nicola³; Anandappa, Gayathri³; Brune, Christoph⁴; Boink, Yoeri⁴; Bibiane-Schonlieb, Carola⁵; Meyer, Paul⁶; Bond, Simon⁷; Wilkinson, Ian¹; Jodrel¹; Duncan⁸; Cheriyan, Joseph⁹

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P30 A 12-week exercise training program reduces endothelial damage in Resistant Hypertension

Lopes, Susana¹; Garcia, Catarina¹; Gonçalves, Ana²; Ribeiro, Ilda³; Barbosa de Melo, Joana³; Ribau, Veronica⁴; Figueiredo, Daniela⁵; Viana, João⁶; Bertoquini, Susana⁷; Polónia, Jorge⁸; Mesquita-Bastos, José⁴; Alves, Alberto⁹; Ribeiro, Fernando¹

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P31 Do treatment induced changes in arterial stiffness affect left ventricular structure and function? – A meta-analysis

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P32 Determining cardiac and arterial contributions to central Pulse Pressure

Vennin, Samuel¹; Li, Ye¹; Willemet, Marie¹; Fok, Henry¹; Gu, Haotian¹; Charlton, Peter¹; Alastruey, Jordi¹; Chowieńczyk, Phil¹

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, Alexandr²; Konradi, Alexandra²

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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

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P35 Arterial stiffness and chronic stress: role of gender - Rigidità arteriosa e stress cronico: ruolo del genere

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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

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P37 Pulse wave velocity: dependence on contemporaneous and historical blood pressure components

Keehn, Louise¹; Cecelja, Marina¹; Chowienzyk, Phil¹

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P38 Differences in form factor calculated from oscillometric or waveform Mean Arterial Pressure

Park, Chloe¹; Tillin, Therese¹; Chaturvedi, Nish¹; Hughes, Alun¹

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P39 Acute responses of pulse wave reflection after Aerobic Exercise with different volumes

Lima, Tainah¹; Cunha, Felipe¹; Monteiro, Walace¹; Farinatti, Paulo¹; Neves, Mário¹

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P40 Effect of antiangiogenic drugs on micro- and macrocirculation in patients with advanced-stage renal cancer

Bevilacqua, Michele^{1,2}; Dalbeni, Andrea^{3,2}; Fava, Cristiano³; Ciccarese, Chiara^{4,5}; Meneguzzi, Alessandra⁶; Montagnana, Martina⁷; Viapiana, Ombretta⁸; Rossini, Maurizio⁹; Iacovelli, Roberto⁵; Mantovani, Anna²; Famà, Federico²; Minuz, Pietro²

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P41 Increased stiffness in the digital arteries of essential hypertensive women: the FUCHSIA study

Bruno, Rosa Maria^{1,2}; Di Lascio, Nicole³; Vitali, Saverio⁴; Rossi, Piercarlo⁴; Gherardini, Rachele⁴; Taddei, Stefano⁴; Faita, Francesco³; Caramella, Davide⁴; Ghiadoni, Lorenzo⁴

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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

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P43 Masked Hypertension and retinal vessel structure and function in young healthy adults: the African-PREDICT Study

Ramoshaba, Nthai¹; Huisman, Hugo^{1,2}; Lammertyn, Leandi^{1,2}; Kotliar, Konstantin³; Schutte, Aletta^{1,2}; Smith, Wayne^{1,2}

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P44 Central hemodynamic profile, target organ damage and blood pressure control in high risk hypertensives

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P45 Impedance cardiography evaluation in elderly hypertensive patients

Ferreira da Silva, Francisco¹; Marques da Silva, Pedro²

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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, Stamatia¹; Ferraro, Mauro²; Trachet, Bram²; Bikia, Vasiliki²; Adamopoulos, Dionysios³; Stergiopoulos, Nikolaos²

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P47 Abnormal flow pattern in Marfan patients is related to aortic geometric features: a 4D flow MRI study

Guala, Andrea¹; Teixido-Tura, Gisela¹; Rodriguez-Palomares, Jose¹; Ruiz-Muñoz, Aroa¹; Garcia-Dorado, David¹; Evangelista, Artur¹

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P48 Comparison between invasive and non-invasive Methods: to evaluate aortic stiffness by pulse wave velocity

Grillo, Andrea¹; Moretti, Francesco²; Scalise, Filippo³; Faini, Andrea⁴; Rovina, Matteo⁵; Salvi, Lucia²; Baldi, Corrado⁵; Sorropago, Giovanni³; Millasseau, Sandrine C.⁶; Carretta, Renzo⁵; Avolio, Alberto P.⁷; Salvi, Paolo⁸; Parati, Gianfranco^{9,4}

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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^{1,2,3}; Goldsmith, Greta¹; Kowalski, Remi^{4,2,5}; Eastaugh, Lucas^{4,5}; Lane, Geoff⁵; Springall, Gabriella⁴; Smolich, Joe^{4,2}; Avolio, Alberto⁶; Cheung, Michael^{4,2,5}

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

Negoita, Madalina¹; Manisty, Charlotte²; Bhuvu, Anish²; Hughes, Alun²; Parker, Kim³; Khir, Ashraf¹

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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, Louise¹; Aasmul, Soren²; Baets, Roel³; De Melis, Mirko²; Greenwald, Stephen E.⁴; Khettab, Hakim¹; Li, Yanlu³; Prinzen, Frits⁵; Reesink, Koen⁵; Segers, Patrick⁶; Boutouyrie, Pierre¹

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

Mariscal Harana, Jorge^{1,2}; Charlton, Peter H²; Vennin, Samuel²; van Engelen, Arna³; Schneider, Torben⁴; Florkow, Mateusz^{2,4}; de Bliet, Hubrecht⁵; Ruijsink, Bram²; Valverde, Israel²; Charakida, Marietta²; Pushparajah, Kuberan²; Sherwin, Spencer¹; Botnar, Rene²; Alastruey, Jordi²

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

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

Di Lascio, Nicole^{1,2}; Kusmic, Claudia¹; Solini, Anna³; Lionetti, Vincenzo²; Faita, Francesco¹

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

Di Lascio, Nicole¹; Gemignani, Vincenzo¹; Bruno, Rosa Maria²; Bianchini, Elisabetta¹; Francesconi, Martina^{1,2}; Stea, Francesco¹; Ghiadoni, Lorenzo²; Faita, Francesco¹

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

Gallo, Antonio^{1,2}; Diertenbeck, Thomas²; Kachenoura, Nadja²; Carreau, Valérie³; Paques, Michel⁴; Girerd, Xavier³

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POSTER SESSION I - INTERVENTIONS

P57 Polyphenols in cocoa-rich chocolate improve vascular function, the Ventricle-Arterial Coupling and cognitive performance of young and healthy adults

Pereira, Telmo¹; Bergqvist, Jacqueline²; Sveälv, 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 sympathectomy for treatment resistant Raynaud's phenomenon: first report of a novel minimally invasive endoscopic technique

van Roon, Annie¹; Kuijpers, Michiel¹; van de Zande, Saskia¹; van Roon, Arie¹; Mariani, Massimo¹; Bos, Reinhard²; Bootsma, Hendrika¹; Klinkenberg, Theo¹; Smit, Andries¹; Mulder, Udo¹
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P59 Know your Vascular Age: A feasibility study on a new service in community pharmacies

Maximiano, Sofia¹; Soares, Patrícia²; Rosa, Mariana²; Pinto, Ana²; Mendes, Maria²; Brito, Joana²; Gose, Sonja³; Risse, Johannes⁴; Pereira, Telmo⁵; Maldonado, João⁶; Paulino, Ema²

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P60 Influence of anger on endothelial dysfunction in patients with recent myocardial infarction

Eibel, Bruna¹; Quadros, Alexandre²; Schmidt, Karine³; Gottschall, Carlos³; Moura, Márcia³
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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
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P62 Dapagliflozin preserves renal vasodilating capacity in hypertensive patients with type 2 diabetes

Bruno, Rosa Maria^{1,2}; Giannini, Livia³; Dardano, Angela³; Biancalana, Edoardo³; Taddei, Stefano³; Ghiadoni, Lorenzo³; Solini, Anna³
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P63 Modification of sympathetic tone by renal artery denervation causes early, significant and sustained arterial de-stiffening

Berukstis, Andrius¹; Neverauskaite-Piliponiene, Gintare²; Misonis, Nerijus¹; Juknevičius, Vytautas¹; Balsyte, Jurate¹; Laucevičius, Aleksandras¹
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P64 Coronary artery revascularization in patients with chronic stable multivessel coronary disease and Left Main Coronary Artery stenosis

Tolpygina, Svetlana¹; Martsevich, Sergej¹; Deev, Alexander¹
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P65 Remote ischaemic preconditioning reduces kidney injury in vascular surgery

Kepler, Teele¹; Kuusik, Karl²; Lepner, Urmas³; Starkopf, Joel⁴; Zilmer, Mihkel⁵; Eha, Jaan²; Torop, Liisi Anette⁶; Kals, Jaak^{3,5}
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P66 Reduction in Augmentation Pressure is associated with improvement of early ventricular ejection after aortic valve replacement

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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, Renzo¹; Pini, Alessandro⁸; Parati, Gianfranco^{9,2}

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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

Ryliškytė, Ligita^{1,2}; Navickas, Rokas^{1,2}; Purnaitė, Roma^{1,2}; Jucevičienė, Agnė¹; Laucevičius, Aleksandras^{1,2}

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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, David³; Khettab, Hakim⁴; Laurent, Stephen⁵; Boutouyrie, Pierre⁴; Obeid, Hasan⁴; Hallab, Magid⁶; Diaz-Rizo, Valeria³

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P71 Troponin increase and subendocardial oxygen supply and demand imbalance in Cardiac Amyloidosis

Salvi, Lucia¹; Salvi, Paolo²; Grillo, Andrea²; Parati, Gianfranco²; Banfi, Francesco³; Perlini, Stefano³

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P72 Aortic pulse wave velocity in patients with COPD: 5-year data from the ARCADE study

Gale, Nicola¹; Al Shezawi, Mahfoudha¹; 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; Laucevicius, Aleksandras²

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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, Garrett²; Baynard, Tracy²

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POSTER SESSION I - PATHOPHYSIOLOGY

P75 Differential elastin degradation and micromechanical properties in ascending aortic aneurysm groups: statistical modelling

Chim, Ya Hua¹; Davies, Hannah²; Diaz De la O, Francesco³; Field, Mark⁴; Madine, Jill²; Akhtar, Riaz¹

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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; Galanakis, Spiros²; Tousoulis, Dimitrios²

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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; Chowienzyk, Philip J¹

¹King's College London

P79 Aortic viscoelastic properties and altered electromechanical cardio- aortic connection in patients with Cardiac Amyloidosis

Salvi, Lucia¹; Salvi, Paolo²; Grillo, Andrea²; Perlini, Stefano¹; Parati, Gianfranco³

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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; Wacławovsky, Gustavo⁵; Kunrath, Vitor⁶

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P81 The impact of aortic pulsatility ratio and double product on physiological indices of coronary stenosis

Mahmud, Azra¹; Elenezi, 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

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

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P84 Relationship of arterial stiffness and ankle-brachial index

Dimitrov, Gabriel¹; Scandale, Giovanni¹; Carzaniga, Gianni²; Recchia, Martino³; Minola, Marzio¹; Perilli, Edoardo¹; Carotta, Maria¹; Catalano, Mariella¹

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POSTER SESSION II - BRAIN

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

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P86 Blunted cerebral microcirculation oxygenation during exercise in newly diagnosed hypertensive patients: links with indices of macrocirculation and arterial stiffness

Triantafyllou, Areti¹; Dipla, Konstantina²; Koletsos, Nikolaos¹; Zafeiridis, Alexandros-Savvas¹; Papadopoulos, Stauros²; Grigoriadou, Iris²; Gkaliagkousi, Eugenia¹; Zafeiridis, Andreas²; Douma, Stella¹

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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

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P89 3 Hours uninterrupted sitting increases cerebrovascular resistance and reduces cerebral blood flow in subjects with increased cardiovascular risk

Hartman, Yvonne¹

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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; Yuzefpolsakaya, Melana¹; Garan, Reshad¹; Takayama, Hiroo¹; Takeda, Koji¹; Naka, Yoshifumi¹; Topkara, Veli¹; Willey, Joshua¹; McDonnell, Barry J¹; Colombo, Paolo¹; Stöhr, Eric³

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P91 The effects of device-guided paced breathing on arterial stiffness: impact of the autonomic nervous system

Farukh, Bushra¹; Faconti, Luca²; Chowienczyk, Phil J³

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P92 Parameters for central blood pressure as predictors for the early clinical and functional outcome after stroke

Holzhauser, Katrin¹

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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, Mahfoudha^{1,2}; Cockcroft, John²; Munnery, Maggie²; Watkeys, Laura²; Gale, Nichola¹; McDonnell, Barry²

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P94 Evaluating central pressure in patients with acute ischemic stroke in acute phase: prognosis and outcome

Costa, Ana¹; Paiva, David¹; Gonçalves, Filipa²; Campos, Ana³; Cunha, Pedro²; Cotter, Jorge⁴

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POSTER SESSION II - EPIDEMIOLOGY

P95 Blood Pressure Variability, Arterial Stiffness and Arterial Remodeling - The Maastricht Study

Zhou, Tan Lai^{1,2}; Henry, Ronald^{3,4,5}; Stehouwer, Coen^{6,7}; van Sloten, Thomas^{8,9,10}; Reesink, Koen^{7,11}; Kroon, Abraham^{6,7}

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Department of Epidemiology and Department of Arterial Mechanics, Paris, France, ¹¹Department

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^{1,2}

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P97 Family patterns of central haemodynamics across three generations in the Malmö Offspring Study

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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, Piotr⁵; Li, Yan⁶; Maloberti, Alessandro⁴; McDonnell, Barry⁷; McEniery, Carmel⁸; Muisan, Maria Lorenza⁹; Nemcsik, Janos¹⁰; Paini, Anna⁹; Rodilla, Enrique¹¹; Wilkinson, Ian¹²; Zweiker, Robert¹³; Protogerou, Athanasios¹⁴

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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@2action (Arterial Stiffness IN the PHARmacies to (2) action) Project

Pereira, Telmo¹; Paulino, Ema²; Rosa, Mariana²; Pinto, Ana²; Teixeira, Maria²; Soares, Patrícia²; Maximiano, Sofia²; Risse, Johannes³; Gose, Sonja²

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P100 The association between dairy products consumption and arterial stiffness: a meta-analysis

Álvarez-Bueno, Celia¹; Caverro-Redondo, Iván²; Soriano-Cano, Alba²; Pozuelo-Carrascosa, Diana P²; Notario-Pacheco, Blanca²; Jimenez-Lopez, Estela²

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P101 Reference values of different parameters of vascular function in Caucasian population without cardiovascular diseases. EVA study

Gomez-Sanchez, Marta¹; Gomez-Sanchez, Leticia²; Lugones-Sanchez, Gristina²; Gonzalez-Sanchez, Jesus¹; Alonso-Dominguez, Rosario³; Recio-Rodriguez, Jose I⁴; Tamayo-Morales, Olaya⁵; Gomez-Marcos, Manuel A³

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P102 – Withdrawn by author

P103 Reference values in a representative sample for a certain country

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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, Thomas¹; Protogerou, Athanase²; Wassertheurer, Siegfried³; Giannatasio, Cristina⁴; Jankowski, Piotr⁵; Li, Yan⁶; Maloberti, Alessandro⁴; McDonnell, Barry⁷; McEniery, Carmel⁸; Muiesan, Maria Lorenza⁹; Nemcsik, Janos¹⁰; Paini, Anna⁹; Rodilla, Enrique¹¹; Wilkinson, Ian⁸; Zweiker, Robert¹²; Sharman, James¹³

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P105 Pulse pressure amplification and physical activity in young black and white adults: The African-PREDICT study

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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, Lucelia¹; Brustolim, Daniele²; Da Silva, Diorlene³; Lima, Rodrigo⁴; Filho, Antonio⁵; Cunha, Roberta⁴; Gomes, Jamile³; Dantas, Raquel⁴

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POSTER SESSION II - HYPERTENSION III

P107 Renal Denervation improves 24-hour central and peripheral blood pressures, arterial stiffness and peripheral resistance

Ott, Christian¹; Franzen, Klaas²; Graf, Tobias³; Weil, Joachim⁴; Schmieder, Roland⁵; Reppel, Michael⁶; Mortensen, Kai⁷

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P108 Anatomic variations of renal arteries in patients with Essential Hypertension: a retrospective study

Lourenço, Jorge¹; Cabral, Joao²; Marado, Daniela²; Carvalho, Armando²

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P109 Reservoir-excess pressure characteristics help identify people with high intra-arterial aortic systolic Blood Pressure

Stoneman, Elif¹; Picone, Dean¹; Schultz, Martin¹; Armstrong, Matthew¹; Black, Andrew²; Dwyer, Nathan²; Roberts-Thomson, Philip²; Sharman, James³

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P110 Acute effect of aerobic, resistance, and combined exercise on blood pressure and Vascular Resistance of hypertensive patients: Randomized clinical trial

Waclawovsky, Gustavo¹; Eibel, Bruna¹; Boll, Liliana¹; Schaun, Maximiliano¹; Barbosa, Eduardo¹; Lehnen, Alexandre¹

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P111 Discrepancy between brachial and invasive intra-aortic pressures in patients undergoing cardiac catheterization

Mahmud, Azra¹; Alghamdi, Ali¹; Balghith, Mohammad²; Ayoub, Kamal²; Khan, Mohammad Fayaz²; AlChighouri, Samir²; AlMutairi, Fawaz¹; AlZaibag, Muayad²

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P112 Effect of different types of physical training on the function endothelial in hypertensive individuals

Pedralli, Marinei¹; Marschner, Rafael¹; Barbosa, Eduardo¹; Eibel, Bruna¹; Lehnen, Alexandre¹

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P113 Diurnal rhythm of central blood pressure during twenty-four-hour ambulatory monitoring

Benczur, Bela¹

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P114 Application and replicability of bilateral and simultaneous multiple arterial bloodpressure measurements in sedentary and physically active professions

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P115 Leukocyte telomere length and its relation to nitric oxide metabolites in a bi-ethnic sample: the SABPA study

Huisman, Hugo W^{1,2}; Combrink, Jan-Hendrik³; Mels, Carina^{3,4}; Schutte, Aletta^{4,5}

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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

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POSTER SESSION II - HYPERTENSION VI

P117 Arterial stiffness, carotid remodeling and other risk factors determining Coronary Artery Disease in hypertensive patients

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P118 CXCL13 as a novel potential biomarker of essential hypertension

Timasheva, Yanina¹; Erdman, Vera²; Nasibullin, Timur²; Tuktarova, Ilsiya²; Mustafina, Olga²

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P119 LDL cholesterol is associated with systemic vascular resistance and wave reflection in subjects not using medications with haemodynamic influences

Choudhary, Manoj kumar^{1,2,3}; Eräranta, Arttu¹; Tikkakoski, Antti J.^{1,4}; Koskela, Jenni¹; Hautaniemi, Elina¹; Kähönen, Mika^{1,4}; Mustonen, Jukka¹; Pörsti, Ilkka^{1,5}

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P120 Determinants of brachial-ankle Pulse Wave Velocity

Bocskei, Renata¹; Benczur, Bela²; Cziraki, Attila¹

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P121 Association of cardiorespiratory fitness with arterial stiffness and peripheral and central blood pressure in resistant hypertension patients

Garcia, Catarina¹; Lopes, Susana¹; Bertoquini, Susana²; Ribau, Verónica³; Leitão, Cátia⁴; Figueiredo, Daniela⁵; P Ribeiro, Ilda⁶; Barbosa de Melo, Joana⁶; L Viana, João⁷; Mesquita-Bastos, José⁵; Polónia, Jorge²; Ribeiro, Fernando¹; J Alves, Alberto⁸

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P122 The arterial stiffness dynamics under the effect of rosuvastatin added to different combinations of antihypertensive drugs

Fedorishina, Olga¹; Protasov, Konstantin²; Torunova, Anna²; Scherbakova, Nina³; Petronchak, Natalia⁴

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P123 Unattended and attended BP values and vasculare and cardiac organ damage

Paini, Anna¹; Salvetti, Massimo²; Bertacchini, Fabio²; Aggiusti, Carlo²; Cappellini, Sara²; Agabiti Rosei, Enrico²; Muiesan, Maria Lorenza²

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P124 Central Blood Pressure Measurement: paradigm shift

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P125 Estimation of Mean Arterial Pressure in non-invasive studies

Park, Chloe¹; Tillin, Therese¹; Chaturvedi, Nish¹; Hughes, Alun¹

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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, Dóra¹; Tabák, Ádám²; Körösi, Beáta³; Cseprekál, Orsolya⁴; Tislér, András²

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P127 Spatial variation of reservoir pressure in children assessed with high fidelity pressure measurement in five aortic locations

Mynard, Jonathan^{1,2,3}; Eastaugh, Lucas^{4,5}; Lane, Geoff⁵; Goldsmith, Greta⁴; Springall, Gabriella⁴; Avolio, Alberto⁶; Smolich, Joe^{4,2}; Cheung, Michael^{4,2,5}

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P128 Radial intima-media thickness assessment by ultra-high frequency ultrasound and automated image-analysis in healthy volunteers

Di Lascio, Nicole¹; Bruno, Rosa Maria^{2,3}; Vitali, Saverio⁴; Caramella, Davide⁴

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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

¹University at Buffalo, Buffalo, NY USA, ²University at Buffalo, ³None

P130 Comparison between PWV measured from cutaneous length by Sphygmocor and by MRI length traced along the whole aorta

Cecelja, Marina¹

¹King's College London

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

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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

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P138 Influence of ultrasound settings on carotid biomarker assessment by B-mode image processing

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P139 Automatic classification of arterial and venular trees in colour fundus images

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P140 Arterial wave dynamics in the horse: Insights obtained from a 1D arterial network model simulation

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POSTER SESSION II - DIABETES, OBESITY AND KIDNEY

P141 Telomere dynamics relation with obesity

Toupance, Simon¹; Chahine, Mirna²; Tzanetakou, Irini³; Labat, Carlos⁴; Gautier, Sylvie¹; Lakomy, Cécil⁴; Rossi, Pascal⁵; Moussallem, Toufic⁶; Yared, Pierre⁶; Quilliot, Didier⁷; Menenakos, Evangelos⁸; Asmar, Roland²; Benetos, Athanase^{1,4}

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P142 Early vascular parameters in the micro- and macrocirculation in Type 2 Diabetes

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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

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P145 Arterial stiffness and Left Ventricular Diastolic Function in patients with metabolic syndrome: Longitudinal study

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P146 Analysis of renal artery revascularization in a tertiary care centre

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P147 Associations between reservoir pressure parameters and kidney function are dependent on the arterial measurement site

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P148 Anthropometric measures in intermittent claudication and critical limb ischemia

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P149 Low carotid arterial stiffness in young Type1 diabetic patients compared with age-matched controls

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P150 The impact of arterial stiffness on troponin T levels in chronic haemodialysis patients

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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

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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

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P153 Pulse Wave Velocity distribution in children at a school in the North of Portugal

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P154 Does the method of the measurement of blood pressure correlates differently with Pulse Wave Velocity in Resistant Hypertension?

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P155 Determinants of Pulse Wave Velocity in children

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P156 Cardio Ankle Vascular Index (CAVI) as arterial stiffness marker in subjects with ankylosing spondylitis

Alanis-Sánchez, Guillermo¹; Cardona-Muñoz, Ernesto²; Cardona-Müller, David³; Totsuka-Sutto, Sylvia³; Mares-Flores, Oscar²; Murguía-Soto, César²; Castañeda-Zaragoza, Diego⁴; Montes-Martínez, David⁵; Ramos-Becerra, Carlos⁶

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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

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P160 Assessment of carotid pulse wave velocity (carPWV) in patients with Ankylosing Spondylitis

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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, Cristina³; Patino-Alonso, Maria C⁴; Mora-Simon, Sara⁵; Maderuelo-Fernandez, Jose A³; Rodriguez-Sanchez, Emiliano³

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P162 Arterial stiffness and body composition in children and adolescents

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P163 Regional differences in geometrical features and layer-specific residual stresses in the bovine descending thoracic aorta

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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

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P166 Aortic Pulsatility, and not Mean Arterial Pressure, is an independent determinant of Left Main Coronary Artery Disease

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P167 Acute exercise effects on vascular and autonomic function in patients with stable coronary artery disease

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P168 Feasibility study of local pulse wave velocity estimation in the carotid artery with multi-beam Laser Doppler Vibrometer

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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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P172 Role of adipose tissue and skeletal muscle in macrovascular atherosclerotic occlusive disease-peripheral arterial disease and carotid artery disease

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A family of individualized solutions for hypertensive patients

Hypertensive patients at any stage of the disease



Salt-sensitive hypertensive patients



*Newly diagnosed
hypertensive patient*



*Hypertensive patient
with
hypercholesterolemia*



*Hypertensive patient
with coronary
artery disease*

