

ARTERY26

Innovations in vascular ageing

PROGRAMME

24 - 25 September 2026, Split



ORGANISER:

Artery Society

CO-ORGANISER:

Alumni Association of the University of Split School of Medicine

HOSTS:

University of Split School of Medicine

University of Split Faculty of Health Sciences

SCIENTIFIC BOARD:

Presidents: Pedro Cunha Guimarães (Portugal), Rosa Maria Bruno (France),
Ana Jerončić (Croatia)

Members: Smriti Badhwar (France), Elisabetta Bianchini (Italy), Rachel
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(Austria), Barry McDonnell (UK), János Nemcsik (Hungary), Mario Podrug
(Croatia), Bart Spronck (Netherlands), Dimitrios Terentes-Printzios (Greece)

LOCAL ORGANISING COMMITTEE:

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Members: Mario Podrug, Renata Pecotić,
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Iva Bilić, Dario Mraz, Borna Bakliža

ON BEHALF OF THE ARTERY26 ORGANISING TEAM:



Prof. Pedro Guimarães Cunha
President, Artery Society



Prof. Ana Jerončić
Chair, ARTERY26 Conference

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WELCOME TO ARTERY26

Innovations in vascular ageing

Dear Colleagues,

It is our great pleasure to welcome you to the University of Split School of Medicine, Croatia, for ARTERY26. Our 26th ARTERY, "Innovations in Vascular Ageing," will showcase emerging advances in artificial intelligence, real-world evidence, and precision vascular science, highlighting their potential to transform the understanding, assessment, and management of vascular ageing.

The programme will also explore new insights into arterial stiffness as both a marker of disease and a potential therapeutic target, extending beyond cardiovascular disease to its links with metabolic disorders and cognitive decline. Particular attention will also be given to novel interventions aimed at improving vascular function and promoting healthy vascular ageing, bridging scientific innovation with clinical impact.

Critical appraisal and open discussion remain central to the programme, with opportunities for reflection and exchange throughout the meeting. A dedicated debate will address the major drivers of the circulation, while a Transcontinental Round Table will bring together representatives of vascular and cardiovascular societies from around the world to discuss future directions, shared scientific priorities, and opportunities for global collaboration.

As always, the ARTERY scientific community lies at the heart of the meeting. Open abstract, Young Investigator Award, and poster sessions will provide a platform for emerging research and innovative ideas, bringing together researchers, clinicians from a broad range of specialties, and industry experts across basic, translational, and clinical vascular science.

ARTERY26 will also recognise achievement and leadership through the Lifetime Achievement Award and the McDonald Lecture, while Career Development Lectures and opportunities for early-career investigators will support the next generation of vascular scientists.

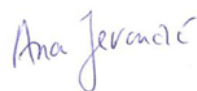
Beyond the scientific programme, ARTERY26 offers many opportunities to connect with colleagues and develop new collaborations, from informal exchanges during the meeting to the Welcome Reception in the Cellars of Diocletian's Palace and the Conference Dinner and Awards Ceremony at the Restaurant Kampus.

We hope to create a stimulating and welcoming environment for scientific exchange and lasting professional connections in the inspiring setting of Split. Your participation supports ARTERY's charitable and educational mission, and on behalf of the ARTERY Executive Committee and the ARTERY26 Local Organising Committee, we look forward to welcoming you to Split.



Prof. Pedro Guimarães Cunha

President, ARTERY Society



Prof. Ana Jerončić

Chair, ARTERY26 Conference

ARTERY26

Innovations in vascular ageing

SCIENTIFIC PROGRAMME

ARTERY26 — *Innovations in vascular ageing*

24–25 September 2026 | Split, Croatia

University of Split School of Medicine



Venue: University of Split School of Medicine, Šoltanska 2a, Split, Croatia
All scientific sessions will take place in **the Amphitheatre, Building B** unless otherwise indicated.

WEDNESDAY, 23RD SEPTEMBER

17:30 – 20:00 ARTERY Working Meetings (Faculty Council Room/Vijećnica, Building A)

- 17:30 – 18:15 Scientific Council Meeting
- 18:15 – 19:00 Editorial Board Meeting
- 19:00 – 20:00 ARTERY Executive Committee Meeting

20:30 – 23:00 Welcome Reception (Cellars of Diocletian's Palace)

Open to all registered participants of the Training School or ARTERY26 Conference.

📍 Obala Hrvatskog narodnog preporoda 1, Split (waterfront entrance)

THURSDAY, 24TH SEPTEMBER

08:00 Registration desk opens (open throughout the conference)

09:00 – 09:15 Conference Opening Remarks

Conference Co-Chairs: Pedro Guimarães Cunha, Portugal; Ana Jerončić, Croatia

09:15 – 09:45 Douglas R. Seals, United States — Opening Lecture

Chair: Pedro Guimarães Cunha, Portugal

Translational research approaches to study vascular ageing: the case of aerobic exercise

09:45 – 11:00 Session 1 – AI Applications in Vascular Ageing

Co-chairs: Patrick Segers, Belgium; Bart Spronck, the Netherlands

09:45 – 10:05 Peter Charlton, United Kingdom

AI applications in PPG signal analysis

10:05 – 10:25 Vivek Muthurangu, United Kingdom

Fully automated measurement of PWV from routine cardiac MRI studies

10:25 – 10:45 Sandra Ortega-Martorell, United Kingdom

AI-driven virtual twins in stroke prevention and management: multimodal approaches

10:45 – 11:00 Critical Reflection

11:00 – 11:30 Coffee Break (Ground Floor Foyer)

11:30 – 12:10 Session 2 – Young Investigator Award I

Co-chairs: Christopher Mayer, Austria; Alessandro Giudici, the Netherlands

11:30 – 11:40 Pressure-independent assessment of the carotid artery vasomotor response to exercise and nitroglycerin administration — Madelief J. Knol, the Netherlands

11:40 – 11:50 Increased transmission of maximal blood flow velocities in healthy, heart failure and left ventricular assist device — Michelle Ottlik, Germany

11:50 – 12:00 Deep learning segmentation improves the performance of hypertension diagnostic based on carotid ultrasound radiomics — Jeremy Rabineau, France

12:00 – 12:10 Dual-wavelength speckle measurements of the microcirculation and macrocirculation during arterial occlusion — Lieke Bergmans, the Netherlands

12:10 – 12:25 Poster Storm I

Co-chairs: Carolina Seabra, Germany; Cedric Neutel, the Netherlands

Hybrid CNN–transformer modeling for aortic pulse wave velocity estimation from single site photoplethysmography — Nabeel P M, India

Metabolic predictors of arterial stiffness in normotensive children with obesity — Marina Vaccari, Argentina

A finger-cuff derived micro–macrocirculation pressure ratio as a potential biomarker of microvascular involvement in vascular ageing — Inka Mustajoki, Finland

Early vascular aging in women classified as low risk by traditional cardiovascular risk scores: impact of emerging and sex-specific risk factors — Albertina Ghelfi, Argentina

Impact of sleep on arterial function, psychological and cognitive complaints in hypertensive patients with poor sleep quality — Sofia Gomes, Portugal

Poster Storm I - continued

Estimating arterial blood pressure from ultrasound-derived blood flow velocity: a feasibility study — *Diletta Guberti, Italy*

Common genetic variants with known mechanistic links to arterial wall remodelling are associated with arterial stiffness in adolescence — *Scott Chiesa, United Kingdom*

Cross-sectional associations of sleep and physical activity with wearable-based estimated arterial stiffness in young to middle-aged adults — *Gizem Yilmaz, Singapore*

Oxidative stress imbalance relates to higher blood pressure in children: the ExAMIN Youth SA study — *Angela Lucas-Herald, United Kingdom*

12:25 – 13:25 **Poster Presentations I (Lower Ground Floor, level -1)**

Posters P1-P48 (*Vascular ageing and lifestyle; Methodologies I*)

13:25 – 14:25 **Lunch (Medical School Cafeteria)**

14:25 – 15:05 Session 2 – Young Investigator Award II

Co-chairs: Barry McDonnell, United Kingdom; Elisabetta Bianchini, Italy

14:25 – 14:35 **Blood pressure-independent aortic stiffness is associated with vascular brain health in the UK Biobank** — *Tilly Roy, United Kingdom*

14:35 – 14:45 **Sex-specific post-COVID carotid arterial remodelling: the CARTESIAN study** — *Smriti Badhwar, France*

14:45 – 14:55 **Towards disease-specific in silico datasets: sex-specific modelling of arterial pulse waves in normotensive and hypertensive ageing** — *Natali van Zijl, United Kingdom*

14:55 – 15:05 **Perivascular adipose tissue influences ex vivo vascular stiffness and reactivity measurements** — *Charlotte Jacobs, Belgium*

15:05 – 15:55 Session 3 – Career Development Lectures

Co-chairs: Alberto P. Avolio, Australia; Luca Faconti, United Kingdom

15:05 – 15:10 **Introduction by the Co-chairs**

15:10 – 15:25 **Jaime Ibarrola Ulzurrun, Spain**

The road to vascular stiffness: mechanistic insights from mineralocorticoid receptor signaling, ageing and obesity

15:25 – 15:40 **Andrea Grillo, Italy**

Vascular ageing and cardiac perfusion: clinical translation of a revised subendocardial viability ratio

15:40 – 15:55 **Matthew K. Armstrong, United States**

Circulating the globe for cardiovascular research: from physiology to epidemiology

15:55 – 16:25 **Coffee Break (Ground Floor Foyer)**

16:25 – 16:55 Session 4 – Real-World Evidence

Co-chairs: Ana Jerončič, Croatia; Enrique Rodilla, Spain

16:25 – 16:45 **Gorana Čapkun, Switzerland — Invited Lecture**

Real-world evidence: from real patients to better care

16:45 – 16:55 **Critical Reflection**

16:55 – 17:40 Session 5 – Debate: What is the Major Driver of the Circulation?

Chair: Rosa Maria Bruno, France

Debate positions

16:55 – 17:10 **The heart — Eric Stohr, Germany**

The heart is the major driver of the circulation

17:10 – 17:25 **The vessels — Carmel McEniery, United Kingdom**

The vessels are the major driver of the circulation

17:25 – 17:40 **Rebuttal/Discussion**

17:40 – 17:55 **Patrick Lacolley, France — Lifetime Achievement Award Presentation**

Chair: Stéphane Laurent, France

18:00 – 18:50 **ARTERY Annual Business Meeting**

- 19:00 – 20:00 Transcontinental working meeting (Faculty Council Room/Vijećnica, Building A)
By invitation only
- 20:30 – 23:00 **Conference Dinner and Awards Ceremony (Restaurant Kampus)**
Followed by informal networking and dancing
📍 Cvite Fiskovića 3, Split
Advance booking and payment required

FRIDAY, 25TH SEPTEMBER

- 08:00 Registration desk opens (open throughout the conference)
- 09:00 – 10:15 Session 6 – Targeting Arterial Stiffness and Integrating It into Clinical Decision Pathways**
Co-chairs: Carmel M. McEniery, United Kingdom; Alun D. Hughes, United Kingdom
- 09:00 – 09:20 **Rosa Maria Bruno, France — Invited Lecture**
Arterial stiffness: marker or target?
- 09:20 – 09:40 **Luca Faconti, United Kingdom**
Aldosterone in vascular ageing: the next target for prevention?
- 09:40 – 10:00 **Amani Norling, United States**
Arterial stiffness in cerebrovascular ageing: from neuroaxonal injury and cognition to cardiovascular reserve
- 10:00 – 10:15 **Critical Reflection**
- 10:15 – 10:40 **Coffee Break (Ground Floor Foyer)**
- 10:40 – 11:40 Session 7 – Open Abstract Session I**
Co-chairs: János Nemcsik, Hungary; Mai Tone Lønnebakken, Norway
- 10:40 – 10:50 **Inhibition of elastin-derived peptide signalling attenuates aortic dysfunction in Fbn1C1039G/+ mice — Melissa Van Praet, Belgium**
- 10:50 – 11:00 **Sexual dimorphism in vascular remodeling associated with obesity and its modulation by SGLT2 inhibitors — Jaime Ibarrola Ulzurrun, Spain**
- 11:00 – 11:10 **Visceral adiposity is the primary determinant of aortic stiffness: a sex-specific MRI study — Mohsen Agharazii, Canada**
- 11:10 – 11:20 **Circulating biomarker correlates of photoplethysmography-derived cardiovascular age gap: a cross-sectional analysis of 29,120 individuals — Aleksi Rantanen, Finland**
- 11:20 – 11:30 **Comparison of 24-h Arteriograph and SphygmoCor measures of arterial stiffness in relation to incident cardiovascular disease in a population-based study from Sweden — Peter M Nilsson, Sweden**
- 11:30 – 11:40 **Carotid-femoral pulse wave velocity determined by oscillometric pulse wave analysis predicts cardiovascular events — Alexander Stäuber, Germany**
- 11:40 – 11:55 Poster Storm II**
Co-chairs: Smriti Badhwar, France; Mario Podrug, Croatia
- Quantifying and reproducing aortic anatomy using statistical shape and conditional generative modeling: application to a healthy cohort of the UK Biobank — Jellis Bollens, Belgium and United States**
- Gut microbial alpha-diversity is associated with lower carotid intima-media thickness in adults without cardiovascular disease — Rita Salvado, Spain**
- Different remodelling responses among arterial beds in response to simulated microgravity: a growth and remodelling study — Alessandro Giudici, the Netherlands**
- Association of pulse wave velocity with cognitive impairment in difficult to control hypertension — Arman Postadzhiyan, Bulgaria**
- Comparative effects of head-up tilt on carotid–femoral and finger–toe pulse wave velocity — Mohsen Agharazii, Canada**
- Comparison of nocturnal blood pressure dipping between an ambulatory cuff and a continuous wearable device — Jesse D. Quadt, the Netherlands**
- Sex differences in the haemodynamic response to exercise — Siana Jones, United Kingdom**
- Nocturnal blood pressure fluctuations and non-dipping patterns in obstructive sleep apnoea: a novel approach for detection and treatment monitoring — Tomas L. Bothe, Germany**

A spatial parameterisation framework for patient-specific constitutive modelling across the aorta — *Mobina Izadpanah, the Netherlands*

Poster Storm II – continued

Association of in-hospital blood pressure variability with early neurological recovery after acute ischemic stroke — *Filipa Madalena Fernandes Gonçalves, Portugal*

In vitro hemodynamic evaluation of Inner- vs. Outer-branched thoracoabdominal endografts — *Eason Rangarajan, United Kingdom*

11:55 – 12:55 **Poster Presentations II (Lower Ground Floor, level -1)**

Posters P49-P102 (*Experimental; Methodologies II; Clinical and Pathophysiology*)

12:55 – 13:45 **Lunch (Medical School Cafeteria)**

13:45 – 14:35 Session 8 – Vascular Ageing in Diabetes and the Effect of Modern Anti-Diabetes Drugs

Chair: Pedro Guimarães Cunha, Portugal

13:45 – 14:05 **John Petrie, United Kingdom — Invited Lecture**

Vascular ageing in diabetes

14:05 – 14:25 **Peter M Nilsson, Sweden**

The effect of modern anti-diabetes drugs on vascular ageing

14:25 – 14:35 **Critical Reflection**

14:35 – 16:00 Session 9 – Open Abstract Session II

Co-chairs: Nikolaos Stergiopoulos, Switzerland; Christopher Mayer, Austria

14:35 – 14:45 **ESCORT: a connecting ecosystem to unmask and manage early vascular ageing and precocious lung and renal diseases in the community setting** — *Enrique Rodilla, Spain*

14:45 – 14:55 **Tiny neural network-based vascular ageing score for granular cardiovascular risk stratification** — *Jayaraj Joseph, India*

14:55 – 15:05 **Revisiting the generalized morphology transfer function between finger photoplethysmography and digital arterial pressure** — *Mikael Karlsson, Sweden*

15:05 – 15:30 **Coffee Break (Ground Floor Foyer)**

Session 9 – Open Abstract Session II – continued

15:30 – 15:40 **Can unilateral change in vascular resistance and compliance produce interarm blood pressure difference?** — *Alberto P. Avolio, Australia*

15:40 – 15:50 **Regional differences in arterial stiffness responses to hydrostatic pressure load during head-up tilt** — *Mohsen Agharazii, Canada*

15:50 – 16:00 **Opening the black box of finger ischemia: very high-resolution ultrasound reveals the spectrum of vascular abnormalities in secondary Raynaud's phenomenon** — *Douwe J Mulder, the Netherlands*

16:00 – 16:25 ARTERY Working Groups: Progress, Impact, and Future Vision

Moderator: Rosa Maria Bruno, France

WG leaders: Luca Faconti, United Kingdom; Rachel Climie, Australia; Bart Spronck, the Netherlands

16:25 – 16:55 Nikolaos Stergiopoulos, Switzerland — McDonald Lecture (Honorary Lecture)

Co-chairs: Pedro Guimarães Cunha, Portugal; Rosa Maria Bruno, France

Modeling and Analysis of Wave Phenomena in the Arterial System: From Pure Science to Inverse Modeling and AI-Driven Applications

16:55 – 17:40 Transcontinental Round Table: Future Directions in Vascular Ageing

Joint session of ARTERY and partner societies

Supported by an unrestricted educational grant

Open to all conference participants

Moderator: Pedro Guimarães Cunha, Portugal

Participating societies: **ARTERY Society** – Pedro Guimarães Cunha; **ARTERY LATAM** – Mario Fritsch Neves; **North American Artery** – Gary Pierce and Julio Chirinos; **Pulse of Asia** – Alberto Avolio and Jeong Bae Park; **ESH** – Thomas Weber; **ISH** – Cesar Romero; **Working Group on Large Arteries (ESH)** – Elisabetta Bianchini

17:40 – 18:10 **Closing Remarks and preview of ARTERY27**

A-Z General Information

ABSTRACTS

Abstracts for ARTERY26 will be available for download from the ARTERY website: <https://www.arterysociety.org/> after the conference. Accepted oral and poster abstracts will also be published on Zenodo, where each abstract will be assigned its own DOI.

AWARDS AND PRIZES

The Awards Ceremony will take place during the Conference Dinner on Thursday, 24 September. Prizes will be awarded for Best Young Investigator Presentation, Career Development Lecture and Best Poster, with a Neutral Data Award presented where applicable.

BADGES

Name badges must be worn at all times throughout the conference. For security reasons, delegates not wearing a badge may be denied access to scientific sessions and other conference areas.

CERTIFICATES AND CME CREDITS

Following the conference, an evaluation survey will be sent to all participants who attended the programme (Training School or Conference). Upon completion of the survey, a Certificate of Attendance will be sent by email in PDF format.

CME credits will be awarded in accordance with the requirements of the Croatian Medical Chamber for conference attendance.

COMPLIANCE AND CONTINUING MEDICAL EDUCATION (CME)

ARTERY26 has been approved in accordance with MedTech Europe compliance requirements. The conference has also been accredited for Continuing Medical Education (CME) by the Croatian Medical Chamber.

CONFERENCE DINNER

The Conference Dinner and Awards Ceremony will be held at the Restaurant Kampus, Cvite Fiskovića 3, Split (10 minutes walking from the venue).

Please note that the Conference Dinner is available only to participants who purchased it during registration or were invited by the organisers as complimentary guests. It cannot be added later.

EXHIBITION

Please ensure you take the time to visit and support the companies exhibiting at ARTERY26. All exhibition stands are conveniently located near the main entrance to the Amphitheatre, making them easily accessible throughout the conference.

LUNCH & REFRESHMENTS

Refreshment breaks will be served in the Ground and First Floor Foyers. Lunch will be served in the Medical School Cafeteria.

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.

MOUNTING AND REMOVAL OF POSTERS

Posters may be mounted between 08:00 and 09:00 **on the day of the scheduled presentation** and should remain on display until the end of the scientific programme that day (Thursday 19:00, Friday 18:10). Please remove your poster at the end of the day's scientific programme. Any posters left after the designated removal time may be removed by the organisers and cannot be stored or returned.

PHOTOGRAPHY

The Committee 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

Poster presentations will take place on the Lower Ground Floor (Level -1). Posters should be displayed **only on the day of their scheduled presentation**.

Thursday, 24 September 2026

12:25–13:25 — Poster Presentations I (Vascular ageing & Lifestyle; Methodologies 1)

Friday, 25 September 2026

11:55–12:55 — Poster Presentations II (Experimental; Methodologies 2; Clinical & Pathophysiology)

All posters will be moderated and judged during the scheduled session. Presenters should remain by their posters during this time; absence may affect award eligibility.

Please note that, as indicated in the conference programme, each poster session will be preceded by a Poster Storm in the Amphitheatre, giving selected presenters the opportunity to briefly introduce their work before delegates proceed to the poster area.

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 Registration Desk will be located in Room B104, close to the main entrance to the Amphitheatre Building. It will open at 08:00 on Thursday 24 and Friday 25 September. Secretariat staff will be available throughout the scientific programme to assist delegates. Conference staff will be wearing ARTERY26 T-shirts, making them easy to identify throughout the venue.

SPEAKER PREVIEW

All invited speakers and oral presenters are required to submit their presentation slides at the earliest opportunity and no later than two sessions before their scheduled talk. Upon arrival, please inquire at the Registration Desk to be directed to the audio-visual technician, who will assist with checking your presentation and ensuring compatibility with the available equipment.

VENUE INFORMATION

University of Split School of Medicine
Šoltanska 2a, 21000 Split, Croatia
Email: artery26@unist.hr

WI-FI

Network: MEFST.HR
Password: Split2022.

ARTERY

Association for Research into
Arterial Structure and Physiology



ARTERY27



**1 - 2 October
2027**



**Budapest,
Hungary**

*Save
the date!*



See you in
Budapest!

ARTERY

Association for Research into
Arterial Structure and Physiology



ARTERY27



2027. október 1-2.



**Budapest,
Magyarország**

*Jegyezze fel
a dátumot!*



Találkozunk
Budapesten!

Oral presentations

YOUNG INVESTIGATOR AWARD – ORAL SESSION 1

1.01 Pressure-independent assessment of the carotid artery vasomotor response to exercise and nitroglycerin administration

Madelief J. Knol¹, Alexander Boruch², Nick van Osta¹, Adam D. Gepner^{2,3}, Bart Spronck^{1,4}.

¹Department of Biomedical Engineering, CARIM School for Cardiovascular Diseases, Maastricht University, Maastricht, The Netherlands. ²William S. Middleton VA Memorial Hospital, Madison, WI, United States. ³University of Wisconsin School of Medicine and Public Health, Madison, WI, United States. ⁴Macquarie Medical School, Faculty of Medicine, Health and Human Sciences, Macquarie University, Sydney, NSW, Australia.

1.02 Increased transmission of maximal blood flow velocities in healthy, heart failure and left ventricular assist device

Michelle Ottlik¹, Ruiping Ji², Giulio Mondellini², Lorenzo Braghieri², Koichi Akiyama³, Francesco Castagna⁴, Alberto Pinsino², John R Cockcroft⁵, Moritz Lampkemeyer¹, Samuel Trocio², Veli K. Topkara², Hiroo Takayama², Koji Takeda², Yoshifumi Naka², Nir Uriel², Melana Yuzefpolskaya², Joshua Z. Willey², Barry J McDonnell⁵, Paolo C. Colombo², Eric Jean Stöhr¹.

¹COR-HELIX, Institute of Sports Science, Leibniz University Hannover, Germany. ²Columbia University Irving Medical Center, United States. ³Yodogawa Christian Hospital, Japan. ⁴Montefiore Medical Center, United States. ⁵Cardiff Metropolitan University, United Kingdom.

1.03 Deep learning segmentation improves the performance of hypertension diagnostic based on carotid ultrasound radiomics

Jeremy Rabineau¹, Ines Manour¹, Maryam Jadoon¹, Dahirou Ousmane Sam¹, Gladwin Joywin-Melitus², Federica Poli³, Marie-Cécile Périer¹, Hakim Khettab⁴, Elisabetta Bianchini⁵, Xavier Jouven¹, Pierre Boutouyrie⁶, Jean-Philippe Empana¹, Rosa Maria Bruno⁶.

¹Université Paris Cité, INSERM, PARCC, France. ²Pharmacology Unit, Hôpital Européen Georges Pompidou, AP-HP, France. ³Sant'Anna School of Advanced Studies, Italy. ⁴Hôpital Européen Georges Pompidou, AP-HP, INSERM, PARCC, France. ⁵National Research Council, Institute of Clinical Physiology, Italy. ⁶Université Paris Cité, France.

1.04 Dual-wavelength speckle measurements of the microcirculation and macrocirculation during arterial occlusion

Johanna N.A. Bergmans¹, Esther J. Maas¹, David J. Keur², Alex W.J. van Kraaij¹, Jorge Herranz Olazabal¹, Evelien Hermeling¹.

¹imec, The Netherlands. ²Eindhoven University of Technology, The Netherlands.

YOUNG INVESTIGATOR AWARD – ORAL SESSION 2

2.01 Blood pressure-independent aortic stiffness is associated with vascular brain health in the United Kingdom Biobank

Tilly Roy, Scott Chiesa, Nikhil Paliwal, Alun Hughes.
University College London, United Kingdom.

2.02 Sex-specific post-COVID carotid arterial remodelling: the CARTESIAN study

Smriti Badhwar¹, Dahirou Ousmane Sam², Mariella Martina³, Mohsen Agharazii⁴, Jolita Badariene⁵, Ignatios Ikonomidis⁶, Lucimere Bohn⁷, Ali Cantürk⁸, Catherine Fortier⁹, Antoine Fayol¹⁰, Remi Goupil¹¹, Andrea Grillo¹², Caroline Annette Berge^{13,14}, Alun D Hughes¹⁵, Jean-Sébastien Hulot¹⁰, Agne Laucyte Cibulskiene¹⁶, Maitone Lonnebakken^{13,14}, Christopher C Mayer¹⁷, Maria Lorenza Muiesan¹⁸, Puato Massimo¹⁹, Chakravarthi Rajkumar²⁰, Carlos Ramos-Becerra²¹, Bart Spronck²², Lee Stoner²³, Dimitrios Terentes-Printzios²⁴, Yesim Tuncok²⁵, Thomas Weber²⁶, Peter Wohlfahrt²⁷, Luca Zanoli²⁸, Gabriel Zieff²⁹, Boutouyrie P^{1,2}, Bruno RM^{1,2}, Bianchini E³.

¹Université Paris Cité, Paris Centre de Recherche Cardiovasculaire (PARCC), INSERM, Paris, France. ²Université Paris Cité, INSERM, PARCC, France. ³National Research Council (CNR), Institute of Clinical Physiology, Pisa, Italy. ⁴CHU de Québec-Université Laval, Canada. ⁵Endocrinology and Nephrology Research Program, CHU de Québec-Université Laval Research Center, Québec City, Québec, Canada. ⁶Laboratory of Preventive Cardiology, 2nd Cardiology Department, Attikon, Greece. ⁷CIAFEL, Faculty of Sports, University of Porto, Portugal. ⁸Sultan Abdülhamid Han Training and Research Hospital, Istanbul, Turkey. ⁹Université Laval, Canada. ¹⁰Hôpital Européen Georges Pompidou, AP-HP, INSERM, PARCC, France. ¹¹Université de Montréal, Canada. ¹²SC Medicina Clinica, ASUGI Trieste, Italy. ¹³Department of Clinical Science, University of Bergen, Bergen, Norway. ¹⁴Department of Heart Disease, Haukeland University Hospital, Bergen, Norway. ¹⁵University College London, United Kingdom. ¹⁶Department of Clinical Sciences Malmö, Lund University, Malmö, Sweden. ¹⁷AIT Austrian Institute of Technology, Vienna, Austria. ¹⁸University of Brescia, Brescia (UNIBS), Italy. ¹⁹Department of Medicine, Surgery and Health Sciences, University of Trieste, Italy. ²⁰Department of Clinical & Experimental Medicine, Brighton & Sussex Medical School, University of Brighton and University of Sussex, Brighton, United Kingdom. ²¹University of Guadalajara, Department of Physiology, Arterial Stiffness Laboratory, University Center for Health Sciences, Mexico. ²²Maastricht University, The Netherlands. ²³University of North Carolina at Chapel Hill, United States. ²⁴First Department of Cardiology, Hippokration Hospital, Medical School, National and Kapodistrian University of Athens, Greece. ²⁵Dokuz Eylul University School of Medicine, Turkey. ²⁶Cardiology Department, Klinikum Wels-Grieskirchen, Wels, Austria. ²⁷Department of Preventive Cardiology, Institute for Clinical and Experimental Medicine, Prague, Czech Republic. ²⁸Università degli Studi di Catania, Catania, Italy. ²⁹University of British Columbia, Vancouver, Canada.

2.03 Towards disease-specific in silico datasets: sex-specific modelling of arterial pulse waves in normotensive and hypertensive ageing

Natali van Zijl¹, Ye Li¹, Phil Chowienczyk¹, Peter H. Charlton², Andrew King¹, Esther Puyol-Antón¹, Jordi Alastruey¹.

¹King's College London, United Kingdom. ²University of Cambridge, United Kingdom.

2.04 Perivascular adipose tissue influences ex vivo vascular stiffness and reactivity measurements

Charlotte Jacobs¹, Melissa Van Praet¹, Lynn Roth¹, Negar Sharifimoghaddammood¹, Cédric Neutel¹, Wim Martinet¹, Griet Jacobs², Guido De Meyer¹.

¹Laboratory of Physiopharmacology, University of Antwerp, Belgium. ²University of Antwerp, Belgium.

OPEN ABSTRACTS – ORAL SESSION 1

3.01 Inhibition of elastin-derived peptide signalling attenuates aortic dysfunction in Fbn1C1039G/+ mice

Melissa Van Praet, Charlotte Jacobs, Eline Roeyen, Negar Sharifimoghaddammood, Cédric Neutel, Guido De Meyer, Wim Martinet, Lynn Roth.

Laboratory of Physiopharmacology, University of Antwerp, Belgium.

3.02 Sexual dimorphism in vascular remodeling associated with obesity and its modulation by SGLT2 inhibitors

Amaya Ramírez¹, Guadalupe Gutiérrez², Ana Zugasti³, Sonsoles Botella³, Natalia Lopez-Andres², Esther Martínez¹, Adela Navarro², Rafael Sadaba², Jaime Ibarrola².

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3.03 Visceral adiposity is the primary determinant of aortic stiffness: a sex-specific MRI study

Kaveh Jafari¹, Catherine Fortier¹, Didace Ndalla Landou¹, Rémi Goupil², Saliha Addour¹, Gregory L. Hundemer³, Anne-Marie Carreau¹, Fabrice Mac-Way¹, Paul Poirier¹, Amélie Paquin¹, Mohsen Agharazii⁴.

¹Université Laval, Canada. ²Université de Montréal, Canada. ³University of Ottawa, Canada. ⁴CHU de Québec-Université Laval, Canada.

3.04 Circulating biomarker correlates of photoplethysmography-derived cardiovascular age gap: a cross-sectional analysis of 29,120 individuals

Aleksi Rantanen¹, Miska Valkonen², Pauli Ohukainen¹.

¹Oura Health Oy, Oulu, Finland. ²Oura Health Oy, Finland.

3.05 Comparison of 24-h Arteriograph and SphygmoCor measures of arterial stiffness in relation to incident cardiovascular disease in a population-based study from Sweden

Peter M Nilsson, Amra Jujic.

Lund University, Sweden.

3.06 Carotid-femoral pulse wave velocity determined by oscillometric pulse wave analysis predicts cardiovascular events

Alexander Stäuber¹, Matthias Hoppe¹, Marcus Dörr², Stefan Richter³, Marc-Alexander Ohlow⁴, Siegfried Eckert⁵, Johannes Baulmann⁶.

¹Marburg University, Germany. ²University Medicine Greifswald, Germany. ³SRH Klinikum Burgenlandkreis GmbH, Germany. ⁴SRH Wald-Klinikum GmbH, Germany. ⁵Heart and Diabetes Center North Rhine-Westphalia, Germany. ⁶Praxis Dres. Gille/Baulmann, Germany.

OPEN ABSTRACTS – ORAL SESSION 2

4.01 ESCORT: a connecting ecosystem to unmask and manage early vascular ageing and precocious lung and renal diseases in the community setting

Enrique Rodilla¹, Luis García-Ortiz², Telmo Pereira³, Christopher C Mayer⁴, Valérie Santschi⁵, Andrzej Januszewicz⁶, Areti Triantafyllou⁷, Ioana-Monica Mozos⁸, Miriam Pikkemaat⁹, Tomás Fajardo¹⁰, Vicente Baixauli¹¹, Simon Wieser¹², José Luis Trillo¹³.

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4.02 Tiny neural network-based vascular ageing score for granular cardiovascular risk stratification

Raj Kiran V¹, Mukhilshankar Umashankar², Nabeel P M¹, Abishek Kevin Pandian³, Vinod Joseph Abraham³, Jayaraj Joseph⁴.

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4.03 Revisiting the generalized morphology transfer function between finger photoplethysmography and digital arterial pressure

Mikael Karlsson¹, Henrik Hellqvist², Thomas Kahan², Jonas Spaak².

¹Marcus Wallenberg Laboratory for Sound and Vibration Research, Department of Engineering Mechanics, KTH Royal Institute of Technology, Stockholm, Sweden. ²Division of Cardiovascular Medicine, Department of Clinical Sciences, Danderyd Hospital, Karolinska Institutet, Stockholm, Sweden.

4.04 Can unilateral change in vascular resistance and compliance produce interarm blood pressure difference?

Vaidehi Desai, Kiren C. Peebles, Isabella Tan, Alberto P. Avolio, Mark Butlin.
Macquarie University, Australia.

4.05 Regional differences in arterial stiffness responses to hydrostatic pressure load during head-up tilt

Sanam Khataei¹, Nadege Cote¹, Saliha Addour¹, Kaveh Jafari¹, Catherine Fortier¹, Alessandro Giudici², Bart Spronck², Mohsen Agharazii³.

¹Université Laval, Canada. ²Maastricht University, The Netherlands. ³CHU de Québec-Université Laval, Canada.

4.06 Opening the black box of finger ischemia: very high-resolution ultrasound reveals the spectrum of vascular abnormalities in secondary Raynaud's phenomenon

Douwe J Mulder, Amel Eman Abdulle, Ruben Eck, Anne van Gessel, Saskia vd Zande, Jesse Cappelle, Arie van Roon.

University Medical Center Groningen, The Netherlands.

THURSDAY 24 Sep – MODERATED POSTER SESSION 1: VASCULAR AGEING & LIFESTYLE

P1 Sex differences in blood pressure and its haemodynamic determinants: Impact of body size

Oscar Gibson¹, Domonkos Cseh^{1,2}, Barry J McDonnell³, Yasmin¹, John R Cockcroft³, Ian B Wilkinson¹, Carmel M McEniery¹.

¹University of Cambridge, United Kingdom. ²Semmelweis University, Hungary. ³Cardiff Metropolitan University, United Kingdom.

P2 EARLY VASCULAR AGING IN WOMEN CLASSIFIED AS LOW RISK BY TRADITIONAL CARDIOVASCULAR RISK SCORES: IMPACT OF EMERGING AND SEX-SPECIFIC RISK FACTORS

Albertina Ghelfi¹, Gustavo Staffieri², Gonzalo Miranda³, Nicolas Renna⁴, Alejandro Díaz⁵, Valentina Zubiaurre⁶, Maria-Noel Marin⁶, Pablo Pizzala⁷, Rosana Quintana¹, Melisa Lassus¹, Flavia Passarino¹, Jose Boggia⁶, Romina Nogara⁶, Romina Maldonado¹, Laura Graziani⁴, Boris Kisluk⁸, Romina Nieto⁸, Leonel Berbotto¹, Sofia Brondello Del Sueldo³, Ruben Mamprin-D'Andrea⁸, Guillermo Berbotto⁸, Mildren Del-Sueldo³.

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P3 Exploring sex and gender in statins' effects on arterial stiffness (ENACT)

Helena Schluchter¹, Sophia Sgraja², Tauseef Nauman³, Ute Seeland⁴.

¹Clinical Division of General Anaesthesia and Intensive Care Medicine, Department of Anaesthesia, Intensive Care Medicine and Pain Medicine, Medical University of Vienna, Austria. ²Institute for Epidemiology, Social Medicine and Health Systems Research, Hannover Medical School, Germany. ³Department of Internal Medicine, Gender- and sex-specific Medicine and Prevention, Otto-von-Guericke University Magdeburg, Germany. ⁴Otto-von-Guericke University of Magdeburg, Magdeburg, Germany.

P4 Metabolic Predictors of Arterial Stiffness in Normotensive Children with Obesity

Marina Vaccari¹, Miriam Romo¹, Cesar Andres Romero², Laura Maldonado³.

¹Ricardo Gutierrez Children's Hospital, Hypertension Area, Argentina. ²Emory University, Renal Division, School of Medicine, United States. ³Ricardo Gutierrez Children's Hospital, Argentina.

P5 Oxidative stress imbalance relates to higher blood pressure in children: The ExAMIN Youth SA study

Angela Lucas-Herald¹, Martin McMillan¹, Abbie J Pearson¹, Catherine Fraser¹, Freya Kane¹, Christian Delles¹, S Faisal Ahmed¹, Ruan Kruger².

¹University of Glasgow, United Kingdom. ²North-West University, South Africa.

P6 Cardiovascular benefits of early childhood obesity prevention: a pragmatic evaluation of a randomised controlled trial in pre-school aged children

Reeja Nasir¹, Li Ming Wen^{1,2}, Huilan Xu², Erin Kerr², Louise Baur^{1,3,4}, Julian Ayer⁴, Frances Garden⁵, David Celermajer^{2,3}, Michael Skilton^{1,3}, Adrienne^{1,2,3}.

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P7 Common genetic variants with known mechanistic links to arterial wall remodelling are associated with arterial stiffness in adolescence

Scott Chiesa, Bidisha Ghosh, Tilly Roy, Siana Jones, Alun Hughes, Nikhil Paliwal.
University College London, United Kingdom.

P8 Polygenic risk for late-life aortic stiffness and its association with arterial stiffness and cardiometabolic risk in the young

Bidisha Ghosh, Tilly Roy, Siana Jones, Alun Hughes, Nikhil Paliwal, Scott Chiesa.
University College London, United Kingdom.

P9 Age- and Blood Pressure-Related Associations of Reservoir-Excess Pressure Parameters in Normotensive Healthy Subjects

Obayashi Masakazu¹, Takeshi Yamamoto², Takashi Nawata³, Kohei Goda⁴, Chika Kuroda Kayabe³, Shinichi Okuda², Motoaki Sano³.

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P10 A systematic review and meta-analysis for age and sex specific normative values of MRI-derived aortic PWV

Ye Li¹, Natali van Zijl¹, Pete H. Charlton², Jordi Alastruey¹, Phil Chowienczyk¹.

¹King's College London, United Kingdom. ²University of Cambridge, United Kingdom.

P11 Estimated Pulse Wave Velocity: A Reliable Alternative or an Imperfect Proxy for Measured Pulse Wave Velocity?

Eylem Yigit^{1,2}, Lilian van Stokkom^{1,2}, Rosa Maria Bruno³, Pierre Boutouyrie⁴, Alessandro Giudici², Bart Spronck^{2,5}.

¹Department of Biomedical Engineering, Eindhoven University of Technology, Eindhoven, The Netherlands. ²Department of Biomedical Engineering, Cardiovascular Research Institute Maastricht (CARIM), Maastricht University, Maastricht, The Netherlands. ³Université Paris Cité, France. ⁴Université Paris Cité, INSERM U970, Paris Cardiovascular Research Centre—PARCC, Paris, France. ⁵Macquarie Medical School, Faculty of Medicine, Health and Human Sciences, Macquarie University, Sydney, NSW, Australia.

P12 Association between pressure-independent carotid artery stiffness in late mid-life and future cognitive decline

Lorena Topala, Alun D Hughes, Scott Chiesa.
University College London, United Kingdom.

P13 Vascular Age is Advanced in Many Outpatients with Serious Mental Illness: Results of a Real World Study

Adrian Heald¹, Yasitha Illangasekera², Karen Barchetti³, Magdalena Nasadowska⁴, Boris Mankovsky⁵, Martin Gibson⁶, Simon G Anderson⁷, Kaitlin Sutton⁴, Joseph Ingram⁴, Pierre Boutouyrie⁸.

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P14 Arterial stiffness, central haemodynamics and cerebrovascular resistance in acute ischaemic stroke: baseline findings from the CHS-MiCA study

Anabela Ribeiro Faria De Carvalho^{1,3}, Filipa Madalena Fernandes Gonçalves^{1,2,3}, Isabel Maria Gil Andre de Vila^{1,3}, Susana Ferreira Vaz¹, Ana Daniela da Silva Ferreira¹, Gabriela Sobreira Pereira¹, Sara Rubina Figueira Drumond de Freitas^{1,2,3}, Maria da Gloria Cunha Sousa Alves¹, Pedro Miguel Guimarães Marques Cunha^{1,2,3}.

¹ULS Alto Ave, Portugal. ²School of Medicine, University of Minho (EMUM), Portugal. ³Centre for Research and Treatment of Hypertension and Cardiometabolic Risk, ESH Excellence Centre, Portugal.

P15 Socioeconomic vulnerability is independently associated with arterial stiffness: evidence from the CARTESIAN cohort

Feriel Hamidou¹, Diego Moriconi¹, Smriti Badhwar¹, Mohsen Agharazii², Fabio Anastasio³, Jeremy Bellien⁴, Lucimere Bohn⁵, Luiz Bortolotto⁶, Marie Courbebaisse¹, Saverio Fabbri¹, Antoine Fayol¹, Lorenzo Ghiadoni⁷, Emmanuel Gomes Ciolac⁸, Remi Goupil⁹, Andrea Grillo¹⁰, Bernhard Hametner¹¹, Alun D Hughes¹², Jean-Sébastien Hulot¹, Ignatios Ikonomidis¹³, Ana Jerončič^{14,30,31}, Junior Justin¹, Hakim Khettab¹, David Lebeaux¹, Cédric Lemogne¹⁵, Alessandro Maloberti¹⁶, Christopher C Mayer¹⁷, Maria Lorenza Muiasan¹⁸, Rogerio Toshiro Passos Okawa¹⁹, Beatrice Parfait¹, Dimitrios-Terentes Printzios²⁰,

Giacomo Pucci²¹, Chakravarthi Rajkumar²², Carlos Ramos-Becerra²³, Ute Seeland²⁴, Bart Spronck²⁵, Yesim Tuncok²⁶, José Fernando Vilela-Martin²⁷, Charalambos Vlachopoulos²⁰, Thomas Weber²⁸, Luca Zanolli²⁹, Pierre Boutouyrie¹, Rosa Maria Bruno¹.

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P16 Association of GIS-Derived Neighborhood Environment Characteristics and Area-Level Socioeconomic Indicators with Arterial Stiffness in a cross-sectional population study in Cyprus

Galatia Photiou^{1,2}, Gene Pozas³, Neophytos Stylianou², Carolina L Zilli Vieira³, Nicos Middleton⁴, Andrie G. Panayiotou¹.

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P17 Hypoxic burden and sleep irregularity as determinants of vascular ageing in arterial hypertension: a prospective multimodal study

Ana Daniela Silva Ferreira.

ULS Alto Ave, Guimarães, Portugal.

P18 Measures of arterial stiffness and central hemodynamics with 24-h Arteriograph in patients with hypertension and healthy volunteers in Andizjan, Uzbekistan

Nodira Badalbaeva¹, Saidburxon Turgunboev², Nelli R Uzbekova³, Peter M Nilsson⁴.

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P19 Beat-to-beat blood pressure variability in healthy adults and exploratory comparison with a bariatric surgery cohort

Souha Fares¹, Hiba Fadlallah¹, Sary Faraj¹, Dounya Farhoud², Houry Puzantian¹.

¹American University of Beirut, Lebanon. ²Duke University, NC, United States.

P20 Early Vascular Aging: Does the Process Begin in the Microcirculation or the Macrocirculation?

Sokolovic Sekib¹, Triantafyllou Areti^{2,3}.

¹ASA Hospital and Sarajevo School of Science and Technology, Bosnia and Herzegovina. ²Papageorgiou General Hospital, Greece. ³Aristotle University of Thessaloniki, Small and Large Vessel Unit, Greece.

P21 Comparison of SCORE2 and PREVENT vascular age calculation methods

János Nemcsik, Johanna Takács, Dóra Batta, Péter Torzsa, Marina Auróra Zsarnai, Zsófia Jósvai, Helga Gyöngyösi.

Semmelweis University, Hungary.

P22 Association between physical activity and arterial stiffness in a cross-sectional population study in Cyprus. Findings from the DEPICT study.

Galatia Photiou^{1,2}, Nicos Middleton³, Demosthenes B. Panagiotakos⁴, Andrie G. Panayiotou¹.

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²ERATOSTHENES Centre of Excellence, Cyprus University of Technology, Limassol, Cyprus. ³Department of Nursing, Cyprus University of Technology, Limassol, Cyprus. ⁴Department of Nutrition and Dietetics, Harokopio University, Athens, Greece.

P23 The Relationship Between Systemic Inflammation and Vascular Aging Driven by High-Intensity Exercise: The MicroFit Study

Agnese Mengoli, Lorenzo Annesi, Baldini Chiara, Baldoni Niccolò, Balletta Marco, Borghi Claudio, Bragonzoni Laura, Brigidi Patrizia, D'Amico Federica, Giovannetti Noemi, Grandi Elisa, Grassi Chiara, Grasso Federica, Lanci Rebecca, Maietta Latessa Pasqualino, Nardi Daniela, Piani Federica, Pinelli Erika, Rizzoli Elisabetta, Roggiani Sara, Scoppolini Massini Maria, Sposetti Lavinia, Stanzani Sofia, Toselli Stefania, Turroni Silvia, Ventura Fulvio, Zinno Raffaele, Davide Agnoletti.

University of Bologna, Italy.

P24 Haemodynamic links between body composition and blood pressure in young men and women

Domonkos Cseh^{1,2}, Jessica E. Middlemiss¹, Shikai Yu³, Gisele J. Bentley¹, Abbie R. Williams⁴, Yasmin¹, Barry J McDonnell⁴, Christopher J. A. Pugh⁴, Ian B Wilkinson¹, Carmel M McEniery¹.

¹University of Cambridge, United Kingdom. ²Semmelweis University, Hungary. ³Tongji University, Shanghai, China.

⁴Cardiff Metropolitan University, United Kingdom.

P25 Mediterranean versus High Protein/Low Carbohydrate diet and Arterial Stiffness in Obese Patients on Semaglutide: RCT

Houry Puzantian, Lara Nasreddine, Zeinab Issa, Jana Al-Rifai, Marlene Chakhtoura.

American University of Beirut, Lebanon.

P26 Impact of sleep on arterial function, psychological and cognitive complaints in hypertensive patients with poor sleep quality

Sofia Gomes¹, Ana Daniela Ferreira^{1,2,3}, Isabel Vila^{1,2,3}, Raquel Barros¹, Pedro Guimarães Cunha^{1,2,3}.

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³School of Medicine, University of Minho (EMUM), Portugal.

P27 Cross-sectional associations of sleep and physical activity with wearable-based estimated arterial stiffness in young to middle-aged adults

Gizem Yilmaz^{1,2}, Aleksi Rantanen³, Xin Yu Chua^{1,2}, Chun Siong Soon^{1,2}, Ju Lynn Ong^{1,2}, Pauli Ohukainen³, Michael Chee^{1,2}.

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THURSDAY 24 Sep – MODERATED POSTER SESSION 1 – METHODOLOGIES

P28 Rapid, contactless estimation of blood pressure using speckle vibrometry

Marija Vaskeviciute, Haobo Li, Roderick Murray-Smith, Sandosh Padmanabhan, Daniele Faccio.
University of Glasgow, United Kingdom.

P29 Variation in form factor between different blood pressure measurement devices

Saskia vd Zande, Anne van Gessel, Douwe J Mulder, Arie van Roon.
University Medical Center Groningen, The Netherlands.

P30 Estimating arterial blood pressure from ultrasound-derived blood flow velocity: A feasibility study

Diletta Guberti¹, Bart Spronck², Marta Carrara¹, Carlo Palombo³, Manuela Ferrario¹, Alessandro Giudici².
¹Politecnico di Milano, Italy. ²Maastricht University, The Netherlands. ³University of Pisa, Italy.

P31 Development of an Applanation Tonometry-Based Pulse Wave Detection Device and Algorithms for Non-Invasive Cardiac and Arterial Assessment

Jaekyoung Song¹, Tae Yun Kim², Chae Hun Leem¹.

¹Medical Research Center, Harvey Cardio, Co. Ltd., Seoul, Republic of Korea. ²Department of Physiology, College of Medicine, University of Ulsan, Seoul, Republic of Korea.

P32 Feasibility of Photoplethysmography-Derived Blood Pressure Measurement During Parabolic Flight: A Preliminary Study

Gisele J. Bentley¹, Bernadette Jenner², Norah Patten³, Shawna Pandya^{3,4}, Kellie Gerardi³, Carmel M McEniery¹.

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P33 Equation-dependent accuracy of cuffless arterial pressure waveform reconstruction from ultrasound-derived arterial diameter signals

Ana Carolina Gonçalves Seabra¹, Smriti Badhwar², Jean-Philippe Empana³, Thomas Stieglitz¹.

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P34 Bioimpedance plethysmography for measuring continuous jugular venous pulsations: proof of concept

Hemamalini V¹, Ragaja S R¹, Raj Kiran V², Jayaraj Joseph³.

¹Healthcare Technology Innovation Centre (HTIC), IIT Madras, India. ²Healthcare Technology Innovation Centre, India. ³Indian Institute of Technology Madras, India.

P35 From blood pressure to vascular stiffness: reflection transit time assessment using a cuff pressure transducer

Raj Kiran V¹, Akashkumar M L², Aiswarya C S³, Jayaraj Joseph⁴.

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P36 A Finger-Cuff Derived Micro–Macrocirculation Pressure Ratio as a Potential Biomarker of Microvascular Involvement in Vascular Ageing

Inka Mustajoki, Tomi Jaakola, Nico Lindström, Tuukka Panula, Matti Kaisti.

University of Turku, Finland.

P37 Retinal microvascular phenotyping: a pilot study exploring the diagnostic value of novel assessment techniques

Styliani Ouzouni¹, Dimitrios Giannoulis², Nikolaos Evangelidis¹, Eleftheria Ztriva¹, Gerald Flossmann³, Thomas Riemer³, Fotis Topouzis², Christos Savopoulos¹, Areti Triantafyllou¹.

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P38 Detection of biological sex using image-based analysis of arterial tonometry waveforms

Sara Vardanega¹, Patrick Segers², Philip Aston³, Jordi Alastruey¹, Manasi Nandi¹.

¹King's College London, United Kingdom. ²Institute of Biomedical Engineering, Ghent University, Ghent, Belgium. ³National Physical Laboratory, United Kingdom.

P39 Edge-ready single-line ultrasound framework for automated arterial wall tracking in vascular ageing assessment

Raj Kiran V¹, Sujay Shanthakumar², Jayaraj Joseph³.

¹Healthcare Technology Innovation Centre, India. ²Healthcare Technology Innovation Centre (HTIC), IIT Madras, India.

³Indian Institute of Technology Madras, India.

P40 A comparison of open-source deep learning architectures for carotid intima-media thickness measurement

Mauro Andretta¹, Laura De Rosa², Jean-Philippe Empana³, Francesco Faita⁴, Vincenzo Gemignani², Hakim Khettab⁵.

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P41 Incorporating Arterial Viscoelasticity into Subject-Specific Neural Networks for Continuous Cuffless Blood Pressure Waveform Measurement

Zaineb Aloui, Khadija Ayari, Alycia Soulas, Cederick Landry.

Université de Sherbrooke, Canada.

P42 Hybrid CNN–transformer modelling for aortic pulse wave velocity estimation from single-site photoplethysmography

Mathew Cigi¹, Raj Kiran V², Nabeel P M², Jayaraj Joseph³.

¹Dept. of Electrical Engineering, Indian Institute of Technology Madras, India. ²Healthcare Technology Innovation Centre, India. ³Indian Institute of Technology Madras, India.

P43 MACHINE LEARNING-BASED PREDICTION OF PULSE WAVE VELOCITY FROM PPG SIGNALS

Hasan OBEID¹, Vasiliki BIKIA², Saliha Addour³, Cederick Landry⁴, Mohsen Agharazii⁵.

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P44 Non-Invasive Cardiac Output Prediction Using Machine Learning on a Large Clinical Population

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P45 A novel non-invasive method to quantify cardiac wall stress in humans

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P46 From computed tomography images to hemodynamic simulations: an open-source automated pipeline for intracranial aneurysm characterization

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P47 Inferring arterial viscoelasticity parameters from data using Physics-Informed Neural Networks

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P48 An Open-Source Machine Learning Algorithm for Quantifying Vascular Ageing from the Uncalibrated Radial Artery Pulse Wave

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P49 Heme: a mediator of smooth muscle cell plasticity in abdominal aortic aneurysms

Ghanim Fajish V, Emma Berna, Cecile Lakomy, Serguei Malikov, Jean-Baptiste Michel, Patrick Lacolley, Veronique Regnault.

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P50 Cortical actin redistribution in α -v-deficient VSMC increases cell stiffness

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P51 Arterial mechanics inside out: Changes in biomechanical behaviour of sheep carotid arteries upon inversion

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P52 Associations of Resting and Exercise-Derived Peak Cardiac and Haemodynamic Indices With VO_2 peak

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P53 Augmentation index measured at rest is associated with cardiac output composition during exercise

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P54 Sex differences in the haemodynamic response to exercise

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P55 Vascular acute effects of passive cycling on glucose metabolism

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P56 An integrated perspective on haemodynamic responses to active standing

Anne I. van Gessel, Sonja L. van Ockenburg, Reinold O.B. Gans, Mark P.M. Harms, Douwe J. Mulder, Arie M. van Roon.

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P57 Regional differences of arterial stiffness response to hydrostatic pressure

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P58 Comparative Effects of Head-Up Tilt on Carotid–Femoral and Finger–Toe Pulse Wave Velocity

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P61 Biaxial mechanical testing of ascending aortic aneurysm tissue: Effect of specimen dimensions

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P62 A spatial parameterisation framework for patient-specific constitutive modelling across the aorta

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P63 Including Cellular Dynamics in Arterial Mechanics Simulations

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P65 Reconstructing inlet flow-rate waveform from peripheral pressure measurements

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P66 Iterative optimization of the reflection coefficients for calibration of patient-specific 1D arterial models

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P70 Beyond oscillometric coefficients: calibration-free blood pressure estimation for pregnant women

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P75 Reliability of 3D echocardiography (3DE) for assessment of left ventricular (LV) function at rest and during exercise

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P77 Comparison of nocturnal blood pressure dipping between an ambulatory cuff and a continuous wearable device

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Tomas L. Bothe¹, Niklas Pilz², Elisabeth Hofmann³.

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P79 Sustained 5-year blood pressure reduction and improved blood pressure control by radiofrequency renal denervation in uncontrolled hypertension: the Swedish Registry for Renal Denervation

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P81 Association of pulse wave velocity with cognitive impairment in difficult to control hypertension

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P82 The association of reservoir-excess pressure parameters with cognitive function in older adults with diverse cardiovascular risk profiles

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P83 Arterial stiffness and left ventricular hypertrophy in patients with myocardial infarction: insights from cardio-ankle vascular index

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P84 Vascular Stiffness and Atherogenic Lipoprotein Dynamics Following Revascularization in Extreme Cardiovascular Risk

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P85 Does pulse wave velocity reflect aortic size in abdominal aortic aneurysm?

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P86 Xanthine Oxidase Activity, Arterial Stiffness and Cardiac Remodeling in Hypertensive Disorders of Pregnancy

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P87 Association of In-Hospital Blood Pressure Variability with Early Neurological Recovery After Acute Ischemic Stroke

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P88 Ventriculo-Arterial Coupling in Acute Ischemic Stroke: Association With Early Clinical Outcomes

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P94 Intrinsic Myocardial Relaxation is Reduced at Rest and During Exercise in Children with Type 1 Diabetes Mellitus

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P95 A composite vascular impairment index reveals a subclinical arterial phenotype discordant with conventional cardiovascular risk calculators in idiopathic inflammatory myopathies

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