

Annual Working Group Report Form

Year/time period of report: 2025

Name of Working Group: Working Group on Large Arteries

Composition of Working Group

Chair:

Dimitrios Terentes-Printzios

Email: dterentes@gmail.com

Year of appointment: 2022

Year of birth: 1982

Vice-Chair:

Name: Elisabetta Bianchini

Email: elisabettabianchini@gmail.com

Year of appointment: 2022

Year of birth: 1975

Secretary:

Giacomo Pucci

Email: giacomo.pucci@unipg.it

Year of appointment: 2023

Year of birth: 1979

Working Group Members

Current number of ESH members: 53

New WG members approved this year: 1

Eleni Georgousi - elenngeo@gmail.com

Current number of members, including Associated peers (see full list at the end of the report): 106

Activities of the year

At the end of 2024 the WG endorsed the manuscript “ARTERY Society recommendations for the use of Pulse Wave Velocity in clinical practice,” a consensus document aimed at standardizing and promoting the appropriate clinical application of pulse wave velocity that was published in Hypertension. Notably, we were recently informed that this work won the “2024 Best of Hypertension” paper award in the category of Clinical science.

During the year, in collaboration with the Artery Society, a questionnaire was developed and disseminated with the aim of monitoring how pulse wave velocity measurement is prescribed and reimbursed across different European countries. The survey was designed to capture differences in clinical indications, healthcare settings, and professional practices related to pulse wave velocity assessment. In addition, it explored national reimbursement policies and their impact on the clinical adoption of this technique. The collected data will allow comparison of practices across countries and identification of existing gaps or inequalities. Overall, this initiative seeks to support harmonization of clinical use and facilitate broader implementation of pulse wave velocity in cardiovascular risk assessment.

An ongoing and already approved project will focus on the application of artificial intelligence and machine learning to integrate arterial biomarkers into the management of hypertension. It aims to provide an overview on how cardiovascular risk assessment can be improved by combining AI based model and data-driven approaches to enhance personalized risk stratification and treatment decisions. The integration of arterial biomarkers with AI tools may allow earlier identification of high-risk patients. Overall, the initiative supports more precise and effective hypertension management in the era of artificial intelligence.

Publications on behalf of the Working Group

Submitted manuscript:

ARTERY Society recommendations for the use of Pulse Wave Velocity in clinical practice
Endorsed by the: the European Society of Hypertension Working Group on Large Arteries, the Network for Research in Vascular Ageing, the Pulse of Asia, the Northern America Artery, Latin America Artery Society & Gesellschaft für Arterielle Gefäßsteifigkeit Deutschland-Osterreich-Schweiz e.V. (DeGAG)

Meetings organized/planned this year: /

ESH endorsement: /

Participation to the ESH Annual Meeting 2025: yes

Main program at ESH 2025 (Milan) reported below:

WORKING GROUP LARGE ARTERIES

VASCULAR ORGAN DAMAGE AND HYPERTENSION: WHAT DO THE ESH 2023 AND ESC 2024 GUIDELINES SAY AND WHAT IS MISSING?”

Milan, Friday, May 23, 13.15 – 14.15, Room Aqua 2

- Could arterial stiffness help to improve risk stratification in subjects with hypertension? R.M. Bruno (Paris, FRANCE)
- Calcium score and beyond. M.T. Lønnebakken (Bergen, NORWAY)
- Looking beyond coronary arteries: Carotid ultrasound and ABI A. Paini (Brescia, ITALY)
- General Discussion

Participation to the ESH Annual Meeting 2026: yes

Working Group Session:

Title: Innovations in Large Artery Function and Structure: From Mechanisms to Cardiometabolic Management

Chairpersons: Dimitrios Terentes-Printzios, Elisabetta Bianchini

Arterial Stiffness and Vascular Aging: Novel Insights from Genomics and Imaging
José F Rodríguez Palomares

Targeting Endothelial Dysfunction: Innovative Therapies for Arterial Health in Cardiometabolic Disease
Areti Triantafyllou

AI and Digital Health in Large Artery Assessment: From Research to Clinical Application
Peter Charlton

Reversing Vascular Remodeling: Translating Basic Science into Clinical Strategies
Kimon Stamatelopoulos

Scientific projects

The Large Arteries Working Group will promote an educational initiative during the upcoming European Congress to be held in Gdańsk. This initiative is aimed at improving knowledge and practical skills in the assessment of large artery function. The program will include both theoretical sessions and hands-on training. It is specifically designed for early-career researchers and clinicians with an interest in vascular physiology. Overall, it will foster education, standardization, and networking within the European vascular research community.

Collaborations with other WGs/Scientific Societies:

ARTERY Society

Other remarks: /

Filled by Giacomo Pucci

Date: 31/12/2025

Appendix:

- 1) Full board composition.
- 2) List of all current WG members incl. full name and e-mail.

1) ESH Working Group on Large Arteries

Full board composition

- Chair: Dimitrios Terentes-Printzios, dterentes@gmail.com, born in 1982
- Vice-Chair: Elisabetta Bianchini, elisabettabianchini@gmail.com, born in 1975
- Secretary: Giacomo Pucci, giacomo.pucci@unipg.it, born in 1979
- Past Chair: Rosa Maria Bruno, rosa-maria.bruno@inserm.fr, born in 1979

2) ESH Working Group on Large Arteries

Membership as of 23 December 2025 (including Associated Peers)

Lastname	Surname	E-mail	ESH member
Agharazii	Mohsen	mohsen.agharazii@crhdq.ulaval.ca	Yes
Aivalioti	Evmorfia	morfoaival5@gmail.com	Yes
Aizawa	Kunihiko	K.Aizawa@exeter.ac.uk	No
Alanis	Guillermo	adrianalanis20@gmail.com	No
Argyris	Antonios	and1dr@gmail.com	Yes
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Avolio	Alberto	alberto.avolio@mq.edu.au	No
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Bianchini	Elisabetta	betta@ifc.cnr.it	Yes
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Segers	Patrick	patrick.segers@ugent.be	No
Şener	Yusuf Ziya	yzsener@yahoo.com.tr	Yes
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