

## Annual Working Group Report Form

**Year/time period of report: 2023**

**Name of Working Group:** Working Group on Blood Pressure Monitoring and Cardiovascular Variability

**Name of Working Group Section (if applicable):** NA

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### Composition of Working Group

**Chair:**

Paolo Palatini

Email: [palatini@unipd.it](mailto:palatini@unipd.it)

Year of appointment: 2022

Year of birth: 1947

**Vice-Chair:**

Alejandro de la Sierra

Email: [asierra17583@gmail.com](mailto:asierra17583@gmail.com)

Year of appointment: 2022

Year of birth: 1958

### Working Group Members

Current number of members: 121 (in 2023)

New members approved this year:

- Martino Pengo, [martino.pengo@unimib.it](mailto:martino.pengo@unimib.it)
  - Jean-Marc Boivin, [jmarc-boivin@orange.fr](mailto:jmarc-boivin@orange.fr)
  - Olga Vriza, [olgavriza@yahoo.com](mailto:olgavriza@yahoo.com)
  - Sungha Park, [shpark0530@yuhs.ac](mailto:shpark0530@yuhs.ac)
  - Zhen-Yu Zhang, [zhenyu.zhang@kuleuven.be](mailto:zhenyu.zhang@kuleuven.be)
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### Activities of the year

#### Publications on behalf of the Working Group

***Published this year:***

Parati G, Bilo G, Kollias A, Pengo M, Ochoa JE, Castiglioni P, Stergiou GS, Mancia G, Asayama K, Asmar R, Avolio A, Caiani EG, De La Sierra A, Dolan E, Grillo A, Guzik P, Hoshida S, Head GA, Imai Y, Juhanova E, Kahan T, Kario K, Kotsis V, Kreutz R, Kyriakoulis KG, Li Y, Manios E, Mihailidou AS, Modesti PA, Omboni S, Palatini P, Persu A, Protogerou AD, Saladini F, Salvi P, Sarafidis P, Torlasco C, Veglio F, Vlachopoulos C,

Zhang Y. Blood pressure variability: methodological aspects, clinical relevance and practical indications for management. *J Hypertens* 2023; 41: 527-544.

Stergiou GS, Menti A, Asayama K, De La Sierra A, Wang J, Kinoshita H, Sawanoi Y, Yamashita S, Kollias A, Wu CO, Ichikawa T, Alpert B. Accuracy of automated cuff blood pressure monitors in special populations: International Organization for Standardization (ISO) Task Group and call for research. *J Hypertens*. 2023; 41: 811-818.

Stergiou GS, Parati G, Kollias A, Schutte AE, Asayama K, Asmar R, Bilo G, de la Sierra A, Dolan E, Filipovsky J, Head G, Kario K, Kyriakoulis KG, Mancia G, Manios E, Menti A, McManus RJ, Mihailidou AS, Muntner P, Niiranen T, Ohkubo T, Omboni S, Protogerou A, Saladini F, Sharman J, Shennan A, Shimbo D, Topouchian J, Wang J, O'Brien E, Palatini P. Requirements for design and function of blood pressure measuring devices used for the management of hypertension: Consensus Statement by the European Society of Hypertension Working Group on Blood Pressure Monitoring and Cardiovascular Variability and STRIDE BP. *J Hypertens* 2023; 41: 2088-2094.

Stergiou GS, Avolio AP, Palatini P, Kyriakoulis KG, Schutte AE, Mieke S, Kollias A, Parati G, Asmar R, Pantazis N, Stamoulopoulos A, Asayama K, Castiglioni P, De La Sierra A, Hahn JO, Kario K, McManus RJ, Myers M, Ohkubo T, Shroff SG, Tan I, Wang J, Zhang Y, Kreutz R, O'Brien E, Mukkamala R. European Society of Hypertension recommendations for the validation of cuffless blood pressure measuring devices: European Society of Hypertension Working Group on Blood Pressure Monitoring and Cardiovascular Variability. *J Hypertens* 2023; 41: 2074-2087.

***In preparation:***

Assessment and management of exaggerated blood pressure response to standing and orthostatic hypertension: position paper of the European Society of Hypertension Working Group on Blood Pressure Monitoring and Cardiovascular Variability

**Meetings organized/planned this year:**

Investigator-Initiated Satellite Symposium. Nocturnal blood pressure: methodological aspects, pathophysiological mechanisms and clinical implications. Organized during ESH 2023 meeting. Milan, 22 June 2023. ESH endorsement: YES

Six Hot Questions on Blood Pressure Measurement in Clinical Practice. Organized during ESH 2023 meeting. Milan, 23 June 2023. ESH endorsement: YES

Investigator-Initiated Satellite Symposium. Hot topics in the automated BP measurement era. San Daniele de Friuli (Italy), 7 September 2023. ESH endorsement: YES

**Participation to the ESH Annual Meeting:**

Breakfast Session. TELEMEDICINE IN THE MANAGEMENT OF HYPERTENSION: NEW PERSPECTIVES AND CHALLENGES. 25 June 2023

Meet-the-expert session. BLOOD PRESSURE VARIABILITY. 25 June 2023

Topical Workshop. NEW APPROACHES TO BLOOD PRESSURE MONITORING. 26 June 2023

**Proposals for participation to the 2024 ESH Annual Meeting:**

Practical “hands-on” course on BP measurement and monitoring in hypertension

How to improve blood pressure measurement. Teaching session

Taking blood pressure measurement into the 21<sup>st</sup> century – a way forward. Workshop

Blood pressure measurement on standing. A new task for the clinician?. Teaching session

Screening of BP at population level. Workshop

Importance of BP phenotypes in the hypertension management

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**Scientific projects*****Completed this year:***

- ESH Consensus Statement on BP Variability
- ESH Consensus Statement on validation of Cuffless BP monitors
- Collaboration with US Association for the Advancement of Medical Instrumentation (AAMI) and International Organization for Standardization (ISO) for developing new standards for device validation in special populations (arm size>42cm; atrial fibrillation; adolescents; elderly; CKD, diabetes mellitus; CVD/CHD/CHF).
- Collaboration with STRIDE BP Organization regarding the Requirements for design and function of blood pressure measuring devices used for the management of hypertension

***Ongoing:***

- ESH Consensus statement on Orthostatic Hypertension

**Educational projects*****Completed this year:***

Six Hot Questions on Blood Pressure Measurement in Clinical Practice

***Proposal for 2024:***

Practical “hands-on” course on bp measurement and monitoring in hypertension

How to improve blood pressure measurement

Blood pressure measurement on standing. A new task for the clinician?

**Collaborations with other WGs/Scientific Societies:**

- AAMI/ISO
- Stride BP Organization

**Other remarks:**None

**Filled by (full name):** Paolo Palatini

**Date:** 17/12/2023

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**Appendix:**

List of all current WG members

List of WG members 2023

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