
Hypertension

Volume 71 Number 3 March 2018

Clinical Implications 367

Consensus Documents

- A Universal Standard for the Validation of Blood Pressure Measuring Devices: Association for the Advancement of Medical Instrumentation/European Society of Hypertension/International Organization for Standardization (AAMI/ESH/ISO) Collaboration Statement**
George S. Stergiou, Bruce Alpert, Stephan Mieke, Roland Asmar, Neil Atkins, Siegfried Eckert, Gerhard Frick, Bruce Friedman, Thomas Graßl, Tsutomu Ichikawa, John P. Ioannidis, Peter Lacy, Richard McManus, Alan Murray, Martin Myers, Paolo Palatini, Gianfranco Parati, David Quinn, Josh Sarkis, Andrew Shennan, Takashi Usuda, Jiguang Wang, Colin O. Wu, Eoin O'Brien 368
- Consensus Document on Improving Hypertension Management in Asian Patients, Taking Into Account Asian Characteristics**
Kazuomi Kario, Chen-Huan Chen, Sungha Park, Chang-Gyu Park, Satoshi Hoshida, Hao-Min Cheng, Qi-Fang Huang, Ji-Guang Wang 375

Recent Advances in Hypertension

- Catheter-Based Renal Nerve Ablation as a Novel Hypertension Therapy: Lost, and Then Found, in Translation**
John W. Osborn, Christopher T. Banek 383

Brief Review

- Strategies for Achieving Healthy Vascular Aging**
Kristen L. Nowak, Matthew J. Rossman, Michel Chonchol, Douglas R. Seals 389

Editorial Commentaries

- Atherosclerosis and Blood Pressure Variability**
Michael G. Ziegler 403
- Transcriptomics in Twins Separates Genetic From Environmental Effects on Gene Expression and Blood Pressure**
Brian J. Morris 406
- Does Chronic Obstructive Pulmonary Disease Cause Cardiovascular Disease?**
G.B. John Mancini, John A. Fleetham 409
- Parameters of Left Ventricular Mass and Dementia: Moving the Literature Forward**
Merrill F. Elias, Rachael V. Torres, Adam Davey 411

Hypertension (ISSN 0194-911X) is published monthly by Wolters Kluwer Health, Inc. at 14700 Citicorp Drive, Bldg 3, Hagerstown, MD 21742. Business offices are located at Two Commerce Square, 2001 Market Street, Philadelphia, PA 19103. Production offices are located at 351 West Camden Street, Baltimore, MD 21201-2436. Individuals may subscribe for their personal use at the following rates for print subscriptions: \$225 for AHA/ASA Domestic and International Members (excluding General Membership level), or \$614 for domestic non-members and \$791 for international non-members. AHA membership information can be found online at professional.heart.org. Periodicals postage paid at Hagerstown, MD, and additional mailing offices. POSTMASTER: Send address changes to HYPERTENSION, American Heart Association, Wolters Kluwer Health, Inc., PO Box 1610, Hagerstown, MD 21740.

Primary Aldosteronism and Cardiovascular Events: It Is Time to Take Guideline Recommendations Seriously	
<i>Martin Reincke</i>	413

Original Articles

Epidemiology/Population

Central and Brachial Blood Pressures, Statins, and Low-Density Lipoprotein Cholesterol: A Mediation Analysis	
<i>Florence Lamarche, Mohsen Agharazii, Annie-Claire Nadeau-Fredette, François Madore, Rémi Goupil</i>	415

• [Online Data Supplement](#)

Hypertension and Diabetes Mellitus: Coprediction and Time Trajectories	
<i>Vasilis Tsimihodimos, Clicerio Gonzalez-Villalpando, James B. Meigs, Ele Ferrannini</i>	422

• [Online Data Supplement](#)

Left Ventricular Hypertrophy and Remodeling and Risk of Cognitive Impairment and Dementia: MESA (Multi-Ethnic Study of Atherosclerosis)	
<i>Kasra Moazzami, Mohammad Reza Ostovaneh, Bharath Ambale Venkatesh, Mohammadali Habibi, Kihei Yoneyama, Colin Wu, Kiang Liu, Isabel Pimenta, Annette Fitzpatrick, Steven Shea, Robyn L. McClelland, Susan Heckbert, Rebecca F. Gottesman, David A. Bluemke, Timothy M. Hughes, João A.C. Lima</i>	429

[Editorial Commentary, p 411](#) • [Online Data Supplement](#)

Childhood Cardiometabolic Risk Factors

Determinants of Cardiometabolic Risk Factors in the First Decade of Life: A Longitudinal Study Starting at Birth	
<i>Empar Lurbe, Francisco Aguilar, Julio Álvarez, Pau Redon, Maria Isabel Torró, Josep Redon</i>	437

• [Online Data Supplement](#)

Hypertension in Children With Kidney Disease

Is Blood Pressure Improving in Children With Chronic Kidney Disease?: A Period Analysis	
<i>Gina-Marie Barletta, Christopher Pierce, Mark Mitsnefes, Joshua Samuels, Bradley A. Warady, Susan Furth, Joseph Flynn</i>	444

• [Online Data Supplement](#)

Predicting Hypertension in Young Adults

Pulse Wave Velocity Predicts the Progression of Blood Pressure and Development of Hypertension in Young Adults	
<i>Teemu Koivisto, Leo-Pekka Lyytikäinen, Heikki Aatola, Tiina Luukkaala, Markus Juonala, Jorma Viikari, Terho Lehtimäki, Olli T. Raitakari, Mika Kähönen, Nina Hutri-Kähönen</i>	451

• [Online Data Supplement](#)

Genetics

Genetic and Environmental Effects on Gene Expression Signatures of Blood Pressure: A Transcriptome-Wide Twin Study	
<i>Yisong Huang, Miina Ollikainen, Pyry Sipilä, Linda Mustelin, Xin Wang, Shaoyong Su, Tianxiao Huan, Daniel Levy, James Wilson, Harold Snieder, Jaakko Kaprio, Xiaoling Wang</i>	457

[Editorial Commentary, p 406](#) • [Online Data Supplement](#)

Proteomic Profiling in Orthostatic Hypotension

Proteomic Profiling for Cardiovascular Biomarker Discovery in Orthostatic Hypotension

Madeleine Johansson, Fabrizio Ricci, Nay Aung, Richard Sutton, Olle Melander, Artur Fedorowski 465

[Editorial Commentary, p 403](#) • [Online Data Supplement](#)

Kidney

Pazopanib-Induced Hypertension in Patients With Renal Cell Carcinoma Is Associated With Low Urine Excretion of NO Metabolites

Anne Robdrup Tinning, Camilla Bengtsen, Niels Viggo Jensen, Lars Bastholt, Boye Lagerbon Jensen, Kirsten Madsen 473

• [Online Data Supplement](#)

Preeclampsia

Dysregulated Expression of RPS4Y1 (Ribosomal Protein S4, Y-Linked 1) Impairs STAT3 (Signal Transducer and Activator of Transcription 3) Signaling to Suppress Trophoblast Cell Migration and Invasion in Preeclampsia

Xuehai Chen, Chao Tong, Haiying Li, Wei Peng, Rong Li, Xin Luo, Huisheng Ge, Yuxin Ran, Qin Li, Yamin Liu, Xi Xiong, Yuxiang Bai, Hua Zhang, Philip N. Baker, Xiru Liu, Hongbo Qi 481

• [Online Data Supplement](#)

Blood Pressure Profile 1 Year After Severe Preeclampsia

Laura Benschop, Johannes J. Duvekot, Jorie Versmissen, Valeska van Broekhoven, Eric A.P. Steegers, Jeanine E. Roeters van Lennep 491

• [Online Data Supplement](#)

Chronic Obstructive Pulmonary Disease

Surrogate Markers of Cardiovascular Risk and Chronic Obstructive Pulmonary Disease: A Large Case-Controlled Study

Marie Fisk, Carmel M. McEniery, Nichola Gale, Kaisa Mäki-Petäjä, Julia R. Forman, Margaret Munnery, Jean Woodcock-Smith, Joseph Cheriyan, Divya Mohan, Jonathan Fuld, Ruth Tal-Singer, Michael I. Polkey, John R. Cockcroft, Ian B. Wilkinson; on behalf of the ERICA Consortium and ACCT Investigators [OPEN](#) 499

[Editorial Commentary, p 409](#) • [Online Data Supplement](#)

Vascular Function

Akap1 Regulates Vascular Function and Endothelial Cells Behavior

Gabriele Giacomo Schiattarella, Fabio Cattaneo, Albino Carrizzo, Roberta Paolillo, Nicola Boccella, Mariateresa Ambrosio, Antonio Damato, Gianluigi Pironi, Anna Franzone, Giusi Russo, Fabio Magliulo, Marinella Pirozzi, Marianna Storto, Michele Madonna, Giuseppe Gargiulo, Valentina Trimarco, Laura Rinaldi, Massimiliano De Lucia, Corrado Garbi, Antonio Feliciello, Giovanni Esposito, Carmine Vecchione, Cinzia Perrino 507

• [Online Data Supplement](#)

Pulmonary Hypertension

STIM2 (Stromal Interaction Molecule 2)-Mediated Increase in Resting Cytosolic Free Ca²⁺ Concentration Stimulates PSMC Proliferation in Pulmonary Arterial Hypertension

Shanshan Song, Shane G. Carr, Kimberly M. McDermott, Marisela Rodriguez, Aleksandra Babicheva, Angela Balistreri, Ramon J. Ayon, Jian Wang, Ayako Makino, Jason X.-J. Yuan 518

• [Online Data Supplement](#)

Primary Aldosteronism

Prevalence of Cardiovascular Disease and Its Risk Factors in Primary Aldosteronism: A Multicenter Study in Japan

Youichi Ohno, Masakatsu Sone, Nobuya Inagaki, Toshinari Yamasaki, Osamu Ogawa, Yoshiyu Takeda, Isao Kurihara, Hiroshi Itoh, Hironobu Umakoshi, Mika Tsuiki, Takamasa Ichijo, Takuyuki Katabami, Yasushi Tanaka, Norio Wada, Yui Shibayama, Takanobu Yoshimoto, Yoshihiro Ogawa, Junji Kawashima, Katsutoshi Takahashi, Megumi Fujita, Minemori Watanabe, Yuichi Matsuda, Hiroki Kobayashi, Hirotaka Shibata, Kohei Kamemura, Michio Otsuki, Yuichi Fujii, Koichi Yamamoto, Atsushi Ogo, Shintaro Okamura, Shozo Miyauchi, Tomikazu Fukuoka, Shoichiro Izawa, Takashi Yoneda, Shigeatsu Hashimoto, Toshihiko Yanase, Tomoko Suzuki, Takashi Kawamura, Yasuharu Tabara, Fumihiko Matsuda, Mitsuhide Naruse; Nagahama Study; JPAS Study Group 530

[Editorial Commentary, p 413](#) • [Online Data Supplement](#)

Corrections

Correction to: Angiotensin-(1-7) and Vascular Function: The Clinical Context ★e9

Correction to: Cyclooxygenase-2 Selectively Controls Renal Blood Flow Through a Novel PPAR β/δ -Dependent Vasodilator Pathway ★e10

★ = Published online only.

Hypertension

JOURNAL OF THE AMERICAN HEART ASSOCIATION



71 (3)

Hypertension. 2018;71:e9-537

Hypertension is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231

Copyright © 2018 American Heart Association, Inc. All rights reserved.

Print ISSN: 0194-911X. Online ISSN: 1524-4563

The online version of this article, along with updated information and services, is located on the World Wide Web at:

<http://hyper.ahajournals.org/content/71/3>

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in *Hypertension* can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the [Permissions and Rights Question and Answer](#) document.

Reprints: Information about reprints can be found online at:
<http://www.lww.com/reprints>

Subscriptions: Information about subscribing to *Hypertension* is online at:
<http://hyper.ahajournals.org/subscriptions/>