Clinical Implications

Clinical–Pathological Conference

Chronic Deep Brain Stimulation Decreases Blood Pressure and Sympathetic Nerve Activity in a Drug- and Device-Resistant Hypertensive Patient

Case of Primary Aldosteronism With Discordant Hormonal and Computed Tomographic Findings
Laurence Amar, Yehonatan Sharabi, Gian Paolo Rossi, Emmanuelle Vidal-Petiot, Anna F. Dominiczak, Paolo Mulatero, Anne-Laure Faucon, Neeraj Dhaun, Rhian M. Touyz, Mohammed Barigou, Aurelien Lorthioir

Hypertension and Its Complications in a Young Man With Autoimmune Disease
Eve Miller-Hodges, Anna F. Dominiczak, Garry L.R. Jennings, Suzanne Oparil, Daniel C. Battle, Fernando Elijovich, Jan N. Basile, Cheryl L. Laffer, Anna Oliveras, Neeraj Dhaun

Brief Review

Arterial Hypertension, Atrial Fibrillation, and Hyperaldosteronism: The Triple Trouble
Teresa M. Seccia, Brasilina Caroccia, Gail K. Adler, Giuseppe Maiolino, Maurizio Cesari, Gian Paolo Rossi

Mid-Career Award for Research Excellence

Small Vessels, Big Role: Renal Microcirculation and Progression of Renal Injury
Alejandro R. Chade

Lewis K. Dahl Memorial Lecture

Unraveling the Physiology of (Pro)Renin Receptor in the Distal Nephron
Tianxin Yang

Editorial Commentaries

Deciphering Systolic–Diastolic Coupling in the Intact Heart
Julio A. Chirinos

Angiogenic Markers in Transition: Thinking Positive
Henning Hagmann, Ravi I. Thadhani

Potential for miRNAs as Biomarkers and Therapeutic Targets in Preeclampsia
Liliya M. Yamaleyeva, Sarah H. Lindsey
Resistant Hypertension: A Refractory Disease or Refractory Patient
Hillel Sternlicht, George L. Bakris ................................................................. 582

Blood Pressure Variability Predicts Clinical Outcomes: Now What?
Jeff Whittle ................................................................................................. 584

Simplified Thresholds for Pediatric (Pre)hypertension: One Approach to Improve Recognition and Outcome
Karel Allegaert, Elena Levchenko ............................................................... 587

Offspring Cardiovascular Disease in Preeclampsia: Nature Versus Nurture?
Alice M. Wang, S. Ananth Karumanchi ...................................................... 589

Original Articles

Epidemiology/Population
Hypertension in Pregnancy and Offspring Cardiovascular Risk in Young Adulthood: Prospective and Sibling Studies in the HUNT Study (Nord-Trøndelag Health Study) in Norway
Ingvild V. Alsnes, Lars J. Vatten, Abigail Fraser, Johan Håkon Bjørngaard, Janet Rich-Edwards, Pål R. Romundstad, Bjørn O. Åsvold ................................................................. 591

Outcome-Driven Thresholds for Increased Home Blood Pressure Variability

Adiposity and Blood Pressure in 110000 Mexican Adults

Heart
ZNF307 (Zinc Finger Protein 307) Acts as a Negative Regulator of Pressure Overload–Induced Cardiac Hypertrophy
Chang-Jiang Yu, Chen Liang, Yu-Xia Li, Qing-Qing Hu, Wei-Wan Zheng, Na Niu, Xu Yang, Zi-Rui Wang, Xiao-Di Yu, Bao-Long Zhang, Bin-Lin Song, Zhi-Ren Zhang ........................................................................................................ 615

Overexpression of Sarcoendoplasmic Reticulum Calcium ATPase 2a Promotes Cardiac Sympathetic Neurotransmission via Abnormal Endoplasmic Reticulum and Mitochondria Ca2+ Regulation
Julia Shanks, Neil Herring, Errin Johnson, Kun Liu, Dan Li, David J. Paterson ................................................................................................. 625

Reduced First-Phase Ejection Fraction and Sustained Myocardial Wall Stress in Hypertensive Patients With Diastolic Dysfunction: A Manifestation of Impaired Shortening Deactivation That Links Systolic to Diastolic Dysfunction and Preserves Systolic Ejection Fraction
Haotian Gu, Ye Li, Henry Fok, John Simpson, Jonathan C. Kentlich, Ajay M. Shah, Philip J. Chowienczyk ........................................................................................................ 633

Kidney
Activation of Peroxisome Proliferator Activator Receptor β/δ Improves Endothelial Dysfunction and Protects Kidney in Murine Lupus
Miguel Romero, Marta Toral, Iñaki Robles-Vera, Manuel Sánchez, Rosario Jiménez, Francisco O’Valle, Alba Rodriguez-Nogales, Francisco Pérez-Viccaíno, Julio Gálvez, Juan Duarte ........................................................................................................ 641
High Ambulatory Arterial Stiffness Index Is an Independent Risk Factor for Rapid Age-Related Glomerular Filtration Rate Decline in the General Middle-Aged Population
Bjørn Odvar Eriksen, Vidar Tor Nyborg Stefansson, Trond Geir Jenessen, Ulla Dorte Mathisen, Jørgen Schei, Marit Dahl Solbu, Tom Wilsgaard, Toralf Melsom

Skin and Sodium Homeostasis
High-Salt Diet Causes Osmotic Gradients and Hyperosmolality in Skin Without Affecting Interstitial Fluid and Lymph
Elham Nikpey, Tine V. Karlsen, Natalia Rakova, Jens M. Titze, Olav Tenstad, Helge Wiig

Renal Denervation
Maternal Gestational Hypertension-Induced Sensitization of Angiotensin II Hypertension Is Reversed by Renal Denervation or Angiotensin-Converting Enzyme Inhibition in Rat Offspring
Baojian Xue, Haifeng Yin, Fang Guo, Terry G. Beltz, Robert L. Thunhorst, Alan Kim Johnson

Orthostatic Hypotension
Relations of Arterial Stiffness With Postural Change in Mean Arterial Pressure in Middle-Aged Adults: The Framingham Heart Study

Blood Pressure in Children
Can Pediatric Hypertension Criteria Be Simplified?: A Prediction Analysis of Subclinical Cardiovascular Outcomes From the Bogalusa Heart Study
Bo Xi, Tao Zhang, Shengxu Li, Emily Harville, Lydia Bazzano, Jiang He, Wei Chen

Stroke
Optimal Systolic Blood Pressure Levels for Primary Prevention of Stroke in General Hypertensive Adults: Findings From the CSPPT (China Stroke Primary Prevention Trial)
Fangfang Fan, Ziwen Yuan, Xianhui Qin, Jianping Li, Yan Zhang, Youbao Li, Tao Yu, Meng Ji, Junbo Ge, Meili Zheng, Xinchun Yang, Huihui Bao, Xiaoshu Cheng, Dongfeng Gu, Dong Zhao, Jiguang Wang, Ningling Sun, Yundai Chen, Hong Wang, Xiaobin Wang, Gianfranco Parati, Fanfan Hou, Xiping Xu, Xian Wang, Gang Zhao, Yong Huo

Pregnancy and Hypertension
External Validation of the fullPIERS Model for Predicting Adverse Maternal Outcomes in Pregnancy Hypertension in Low- and Middle-Income Countries
U. Vivian Ukah, Beth Payne, Tang Lee, Laura A. Magee, Peter von Dadelszen; for the fullPIERS and miniPIERS Working Groups
Aging
Arterial Pressure, Heart Rate, and Cerebral Hemodynamics Across the Adult Life Span
Chang-Yang Xing, Takashi Tarumi, Rutger L. Meijers, Marcel Turner, Justin Repshas, Li Xiong, Kan Ding, Wanpen Vongpatanasin, Li-Jun Yuan, Rong Zhang ........................................... 712
• Online Data Supplement

Preeclampsia
Testosterone Represses Estrogen Signaling by Upregulating miR-22: A Mechanism for Imbalanced Steroid Hormone Production in Preeclampsia
Xuan Shao, Yanlei Liu, Ming Liu, Yongqing Wang, Liying Yan, Hao Wang, Liyang Ma, Yu-xia Li, Yangyu Zhao, Yan-ling Wang ................................................................. 721
Editorial Commentary, p 580 • Online Data Supplement

Prediction of Preeclampsia Using the Soluble fms-Like Tyrosine Kinase 1 to Placental Growth Factor Ratio: A Prospective Cohort Study of Unselected Nulliparous Women
Ulla Sovio, Francesca Gaccioli, Emma Cook, Martin Hund, D. Stephen Charnock-Jones, Gordon C.S. Smith .......................... 731
Editorial Commentary, p 578 • Online Data Supplement

Role of Office Blood Pressure in Diagnosis and Treatment of Hypertension
Genomics and Precision Medicine for Clinicians and Scientists in Hypertension
Anna Dominiczak, Christian Delles, Sandosh Padmanabhan ......................... e10
★ = Published online only.
Hypertension. 2017;69:e10-738

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/69/4

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/