Brief Review

Unveiling the Vasodilatory Actions and Mechanisms of Relaxin
Kirk P. Conrad

Hypertension Highlights

Sympathetic Nervous System and Blood Pressure in Humans: Individualized Patterns of Regulation and Their Implications
Michael J. Joyner, Nisha Charkoudian, B. Gunnar Wallin

Vascular Functions of NADPH Oxidases
Ralf P. Brandes

Editorial Commentaries

Drug Combinations in the Treatment of Hypertension: Never-Ending Novelty
Domenic A. Sica

Strategies and Goals for Hypertension Control in Patients With Diabetes Mellitus
Theodore A. Kotchen

Controversies in the Assessment of Left Ventricular Mass
Samuel S. Gidding

Arterial Stiffening: Cause and Prevention
Marina Cecelja, Philip Chowienczyk

Dissecting the Complex Physiology of Endothelin: New Lessons From Genetic Models
David M. Pollock

Is Maternal Blood Pressure the Key to Vascular Dysfunction in Preterm Offspring With Elevated Blood Pressure?
Barbara T. Alexander
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Articles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemiology/Population Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>An Analysis of Prospective Risk Factors for Aortic Stiffness in Men</td>
<td>Carmel M. McEniery, Michael Spratt, Margaret Munnery, John Yarnell, Gordon D. Lowe, Ann Rumley, John Gallacher, Yoav Ben-Shlomo, John R. Cockcroft, Ian B. Wilkinson</td>
<td>36</td>
</tr>
<tr>
<td>Prediction of Cardiovascular Events in Subjects in the Second Australian National Blood Pressure Study</td>
<td>Mark R. Nelson, Philip Ryan, Andrew M. Tonkin, Emmae Ramsay, Kristyn Willson, Lindon W.H. Wing, Christopher M. Reid, on behalf of the Second Australian National Blood Pressure Study Management Committee</td>
<td>44</td>
</tr>
<tr>
<td>Joint Associations of Physical Activity and Aerobic Fitness on the Development of Incident Hypertension: Coronary Artery Risk Development in Young Adults</td>
<td>Mercedes R. Carnethon, Natalie S. Evans, Timothy S. Church, Cora E. Lewis, Pamela J. Schreiner, David R. Jacobs, Jr, Barbara Sternfeld, Stephen Sidney</td>
<td>49</td>
</tr>
<tr>
<td>Orthostatic Hypotension Is a More Robust Predictor of Cardiovascular Events Than Nighttime Reverse Dipping in Elderly</td>
<td>Robert H. Fagard, Paul De Cort</td>
<td>56</td>
</tr>
<tr>
<td>Clinical Treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical Potential of Combined Organic Nitrate and Phosphodiesterase Type 5 Inhibitor in Treatment-Resistant Hypertension</td>
<td>James J. Oliver, James W. Dear, David J. Webb</td>
<td>62</td>
</tr>
<tr>
<td>Encounter Frequency and Blood Pressure in Hypertensive Patients With Diabetes Mellitus</td>
<td>Alexander Turchin, Saveli I. Goldberg, Maria Shubina, Jonathan S. Einbinder, Paul R. Conlin</td>
<td>68</td>
</tr>
<tr>
<td>Orthostatic Tolerance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greater Orthostatic Tolerance in Young Black Compared With White Women</td>
<td>Kumba Hinds, Nina S. Stachenfeld</td>
<td>75</td>
</tr>
<tr>
<td>Menstrual Cycle Affects Renal-Adrenal and Hemodynamic Responses During Prolonged Standing in the Postural Orthostatic Tachycardia Syndrome</td>
<td>Qi Fu, Tiffany B. VanGundy, Shigeki Shibata, Richard J. Aachus, Gordon H. Williams, Benjamin D. Levine</td>
<td>82</td>
</tr>
<tr>
<td>Heart</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does Information on Systolic and Diastolic Function Improve Prediction of a Cardiovascular Event by Left Ventricular Hypertrophy in Arterial Hypertension?</td>
<td>Giovanni de Simone, Raffaele Izzo, Marcello Chinali, Marina De Marco, Giuseppina Casalnuovo, Francesco Rozza, Daniela Girfoglio, Gianluigi Iovino, Bruno Trimarco, Nicola De Luca</td>
<td>99</td>
</tr>
<tr>
<td>Blood Vessels/Endothelium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas6-Axl Pathway: The Role of Redox-Dependent Association of Axl With Nonmuscle Myosin IIB</td>
<td>Megan E. Cavet, Elaine M. Smolock, Prashanthi Menon, Atsushi Konishi, Vyacheslav A. Korshunov, Bradford C. Berk</td>
<td>105</td>
</tr>
</tbody>
</table>
Vascular Relaxation, Antihypertensive Effect, and Cardioprotection of a Novel Peptide Agonist of the Mas Receptor
Silvia Quintão Savergnini, Merav Beiman, Roberto Queiroga Lautner, Vanice de Paula-Carvalho, Kyan Allahdadi, Dalton Caires Pessoa, Fabiana Pereira Costa-Fraga, Rodrigo Araújo Fraga-Silva, Gady Cojocaru, Yossi Cohen, Michael Bader, Alvar Pinto de Almeida, Galit Rotman, Robson Augusto Souza Santos

Low Blood Pressure in Endothelial Cell–Specific Endothelin 1 Knockout Mice
Yaz Y. Kisanuki, Noriaki Emoto, Takashi Ohuchi, Bambang Widyantoro, Keiko Yagi, Kazuhiko Nakayama, Rafal M. Kedzierski, Robert E. Hammer, Hiromi Yanagisawa, S. Clay Williams, James A. Richardson, Takashi Suzuki, Masashi Yanagisawa

Rosiglitazone Attenuates Endothelin-1–Induced Vasoconstriction by Upregulating Endothelial Expression of Endothelin B Receptor
Jianwei Tian, Wing Tak Wong, Xiao Yu Tian, Peng Zhang, Yu Huang, Nanping Wang

Free Fatty Acid Causes Leukocyte Activation and Resultant Endothelial Dysfunction Through Enhanced Angiotensin II Production in Mononuclear and Polymorphonuclear Cells
Yoko Azekoshi, Takanori Yasu, Saiko Watanabe, Tatsuya Tagawa, Satomi Abe, Ken Yamakawa, Yoshinari Uehara, Shinichi Momomura, Hidenori Urata, Shinichiro Ueda

Expression of Angiotensin Type 1A Receptors in C1 Neurons Restores the Sympathoexcitation to Angiotensin in the Rostral Ventrolateral Medulla of Angiotensin Type 1A Knockout Mice
Daian Chen, Jaspreet K. Bassi, Thomas Walther, Walter G. Thomas, Andrew M. Allen

Extracellular 2′,3′-Cyclic Adenosine 5′-Monophosphate Is a Potent Inhibitor of Preglomerular Vascular Smooth Muscle Cell and Mesangial Cell Growth
Edwin K. Jackson, Jin Ren, Delbert G. Gillespie, Raghvendra K. Dubey

Elevated Blood Pressure in Offspring Born Premature to Hypertensive Pregnancy: Is Endothelial Dysfunction the Underlying Vascular Mechanism?
Merzaka Lazdam, Arancha de la Horra, Alex Pitcher, Zola Mannie, Jonathan Diesch, Corinne Trevitt, Ilias Kyliintieaes, Hussain Contractor, Atul Singhal, Alan Lucas, Stefan Neubauer, Rajesh Kharbanda, Nicholas Alp, Brenda Kelly, Paul Leeson

Upregulation of Urotensin II Receptor in Preeclampsia Causes In Vitro Placental Release of Soluble Vascular Endothelial Growth Factor Receptor 1 in Hypoxia
Phillip S. Gould, Mei Gu, Jianqin Liao, Shakil Ahmad, Melissa J. Cudmore, Asif Ahmed, Manu Vatish
Letters to the Editor

Influence of Changes in Blood Pressure on Cerebral Oxygenation: Role of Skin Blood Flow?
Peter Rasmussen, Carsten Lundby .................................................. ★e1

The Cerebrovascular Pressure-Flow Relationship: A Simple Concept But a Complex Phenomenon
Rogier V. Immink, Marcus W. Hollmann, Jasper Truijen, Yu-Sok Kim, Johannes J. van Lieshout ............ ★e2

Response to The Cerebrovascular Pressure-Flow Relationship: A Simple Concept But a Complex Phenomenon
Samuel J.E. Lucas, Yu Chieh Tzeng, Philip N. Ainslie ......................................... ★e3

Comparing Blood Pressure Measurement Methods: Differences Depend on Blood Pressure Height
Nynke Scherpbier-de Haan, Carel Bakx, Theo Thien ........................................ ★e4

Response to Comparing Blood Pressure Measurement Methods: Differences Depend on Blood Pressure Height
Martin G. Myers ................................................................. ★e5

Angiotensin II Type 1a–Deficient Bone Marrow–Derived Dendritic Cells Produce Higher Levels of Monocyte Chemoattractant Protein 1
Karen A. Nahmod, Jorge R. Geffner, Thomas Walther ................................... ★e6–e7

Response to Angiotensin II Type 1a–Deficient Bone Marrow–Derived Dendritic Cells Produce Higher Levels of Monocyte Chemoattractant Protein 1
Steven D. Crowley, Young-Soo Song, Gregory Sprung, Robert Griffiths, Matthew Sparks, Ming Yan,
James L. Burchette, David N. Howell, Eugene E. Lin, Benson Okeiyi, Johannes Siegbauer, Yanqiang Yang,
Pierre-Louis Tharaux, Phillip Ruiz ........................................................................ ★e8

Aortic Augmentation Index and Aging: Mathematical Resolution of a Physiological Dilemma?
Mayooran Namasivayam, Audrey Adji, Michael F. O’Rourke .............................. ★e9–e10

Measurement of Blood Pressure in the Office
Catherine A. Martin, James D. Cameron, Suzi S. Chen, Barry P. McGrath ................. ★e11

Response to Measurement of Blood Pressure in the Office
Martin G. Myers ................................................................. ★e12

Home or Office Blood Pressure Monitoring in Predicting Cardiovascular Events: What is Policy Implication?
Ivy Shiue ................................................................................... ★e13

Response to Home or Office Blood Pressure Monitoring in Predicting Cardiovascular Events: What is Policy Implication?
Teemu Niiranen ........................................................................ ★e14

C-Reactive Protein and Cardiovascular Disease: Differences Between Humans and Mice
Jørgen Jeppesen, Camilla Asferg ............................................................... ★e15

Response to C-Reactive Protein and Cardiovascular Disease: Differences Between Humans and Mice
Hui Y. Lan, Alexander J. Szalai ....................................................................... ★e16

Corrections ...................................................................................... ★e17–e18

On the cover: X-galactosidase staining of R26R;Tie2-Cre transgenic mouse heart (D), lung (E), and kidney (G). Expression of lacZ is observed in essentially all of the endothelial cells of R26R;Tie2-Cre transgenic tissues. In the R26R;Tie2-Cre heart, not only endothelial cells of coronary arteries and veins but also endocardial cells (arrowheads in D) are lacZ positive. In the R26R;Tie2-Cre lung, expression of lacZ is observed in the endothelial cells of alveolar walls but not in the airway (arrows in E). In the kidney (G), lacZ is detected in endothelial cells of glomeruli and peritubular blood vessels but not in nephron epithelium. (See page 121.)