



## JAHA: Journal of the American Heart Association

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### Editor's Note

#### Hypertensive Disorders in Pregnancy and the Risk of Cardiovascular Disease: A Need for Postpartum Strategies for the Primary Prevention

Ajay K. Gupta

e009648. DOI: 10.1161/JAHA.118.009648.

### Editorials

#### Type-I Paradox of Brugada Syndrome

Sami Viskin, Aviram Hochstadt, and Raphael Rosso

e009298. DOI: 10.1161/JAHA.118.009298.

#### Do Young Women Need Treatment for Hypertension After Pregnancy Complications?

Christina Y. L. Aye, Einas Elmahi, Henry Boardman, and Paul Leeson

e009159. DOI: 10.1161/JAHA.118.009159.

#### Cardiovascular Sequels of Hypertension in Pregnancy

Renata Cifková

e009300. DOI: 10.1161/JAHA.118.009300.

#### Reducing Low-Density Lipoprotein Cholesterol After Myocardial Infarction in Older Individuals, Levels Versus Change: Can Observational Studies Answer the Questions?

Lewis H. Kuller

e009430. DOI: 10.1161/JAHA.118.009430.

### Original Research

#### Arrhythmia and Electrophysiology

#### Gene Transfer of Engineered Calmodulin Alleviates Ventricular Arrhythmias in a Calsequestrin-Associated Mouse Model of Catecholaminergic Polymorphic Ventricular Tachycardia

Bin Liu, Shane D. Walton, Hsiang-Ting Ho, Andriy E. Belevych, Svetlana B. Tikunova, Ingrid Bonilla, Vikram Shettigar, Bjorn C. Knollmann, Silvia G. Priori, Pompeo Volpe, Przemysław B. Radwański, Jonathan P. Davis, and Sándor Györke

e008155. DOI: 10.1161/JAHA.117.008155.

#### Xanthine Oxidase Inhibitor Allopurinol Prevents Oxidative Stress-Mediated Atrial Remodeling in Alloxan-Induced Diabetes Mellitus Rabbits

Yajuan Yang, Jianping Zhao, Jiuchun Qiu, Jian Li, Xue Liang, Zhiwei Zhang, Xiaowei Zhang, Huaying Fu, Panagiotis Korantzopoulos, Konstantinos P. Letsas, Gary Tse, Guangping Li, and Tong Liu

e008807. DOI: 10.1161/JAHA.118.008807.

#### Prognostic Significance of the Sodium Channel Blocker Test in Patients With Brugada Syndrome

Akira Ueoka, Hiroshi Morita, Atsuyuki Watanabe, Yoshimasa Morimoto, Satoshi Kawada, Motomi Tachibana, Masakazu Miyamoto, Koji Nakagawa, Nobuhiro Nishii, and Hiroshi Ito

e008617. DOI: 10.1161/JAHA.118.008617.

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## **Risk Factors and Temporal Trends of Complications Associated With Transvenous Implantable Cardiac Defibrillator Leads**

Jayanthi N. Koneru, Paul W. Jones, Eric F. Hammill, Nicholas Wold, and Kenneth A. Ellenbogen  
e007691. DOI: 10.1161/JAHA.117.007691.

## **Congenital Heart Disease**

### **Predictors of Postoperative Rehabilitation Therapy Following Congenital Heart Surgery**

Ana Ubada Tikkanen, Meena Nathan, Lynn A. Sleeper, Marisa Flavin, Ana Lewis, Donna Nimec, John E. Mayer, and Pedro del Nido  
e008094. DOI: 10.1161/JAHA.117.008094.

## **Coronary Heart Disease**

### **Bilirubin Is Inversely Associated With Cardiovascular Disease Among HIV-Positive and HIV-Negative Individuals in VACS (Veterans Aging Cohort Study)**

Vincent C. Marconi, Meredith S. Duncan, Kaku So-Armah, Vincent Lo Re 3rd, Joseph K. Lim, Adeel A. Butt, Matthew Bidwell Goetz, Maria C. Rodriguez-Barradas, Charles W. Alcorn, Jeffrey Lennox, Joshua A. Beckman, Amy Justice, and Matthew Freiberg  
e007792. DOI: 10.1161/JAHA.117.007792.

### **Evaluation of the Impact of a Chronic Total Coronary Occlusion on Ventricular Arrhythmias and Long-Term Mortality in Patients With Ischemic Cardiomyopathy and an Implantable Cardioverter-Defibrillator (the eCTOpy-in-ICD Study)**

Ivo M. van Dongen, Dilek Yilmaz, Joëlle Elias, Bimmer E. P. M. Claessen, Ronak Delewi, Reinoud E. Knops, Arthur A. M. Wilde, Lieselot van Erven, Martin J. Schalij, and José P. S. Henriques  
e008609. DOI: 10.1161/JAHA.118.008609.

### **Clinical Characteristics, Sex Differences, and Outcomes in Patients With Normal or Near-Normal Coronary Arteries, Non-Obstructive or Obstructive Coronary Artery Disease**

Michelle L. Ouellette, Adrián I. Löffler, George A. Beller, Virginia K. Workman, Eric Holland, and Jamieson M. Bourque  
e007965. DOI: 10.1161/JAHA.117.007965.

### **Novel Phospholipid Signature of Depressive Symptoms in Patients With Coronary Artery Disease**

Parco Chan, Ivonne Suridjan, Dana Mohammad, Nathan Herrmann, Graham Mazereeuw, Lyn M. Hillyer, David W. L. Ma, Paul I. Oh, and Krista L. Lanctôt  
e008278. DOI: 10.1161/JAHA.117.008278.

### **Association of Diabetic Status and Glycemic Control With Ischemic and Bleeding Outcomes in Patients With Stable Coronary Artery Disease: The 5-Year CORONOR Registry**

Gilles Lemesle, Thibaud Meurice, Olivier Tricot, Nicolas Lamblin, and Christophe Bauters  
e008354. DOI: 10.1161/JAHA.117.008354.

### **Loss of the Liver X Receptors Disrupts the Balance of Hematopoietic Populations, With Detrimental Effects on Endothelial Progenitor Cells**

Adil Rasheed, Ricky Tsai, and Carolyn L. Cummins  
e007787. DOI: 10.1161/JAHA.117.007787.

### **Oxidative Stress and Cardiovascular Risk in Type 1 Diabetes Mellitus: Insights From the DCCT/EDIC Study**

W. H. Wilson Tang, Paula McGee, John M. Lachin, Daniel Y. Li, Byron Hoogwerf, and Stanley L. Hazen, DCCT/EDIC Research Group  
e008368. DOI: 10.1161/JAHA.117.008368.

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## Epidemiology

### **Self-Reported Smoking, Urine Cotinine, and Risk of Cardiovascular Disease: Findings From the PREVEND (Prevention of Renal and Vascular End-Stage Disease) Prospective Cohort Study**

Setor K. Kunutsor, Julia M. Spee, Lyanne M. Kieneker, Ron T. Gansevoort, Robin P. F. Dullaart, Albert-Jan Voerman, Daan J. Touw, and Stephan J. L. Bakker

e008726. DOI: 10.1161/JAHA.118.008726.

### **Ceramide Remodeling and Risk of Cardiovascular Events and Mortality**

Linda R. Peterson, Vanessa Xanthakis, Meredith S. Duncan, Stefan Gross, Nele Friedrich, Henry Völzke, Stephan B. Felix, Hui Jiang, Rohini Sidhu, Matthias Nauck, Xuntian Jiang, Daniel S. Ory, Marcus Dörr, Ramachandran S. Vasan, and Jean E. Schaffer

e007931. DOI: 10.1161/JAHA.117.007931.

### **Race/Ethnic and Sex Differences in the Association of Atherosclerotic Cardiovascular Disease Risk and Healthy Lifestyle Behaviors**

Alanna A. Morris, Yi-An Ko, Sarah H. Hutcheson, and Arshed Quyyumi

e008250. DOI: 10.1161/JAHA.117.008250.

### **Frailty as a Risk Factor for Cardiovascular Versus Noncardiovascular Mortality in Older Men: Results From the MrOS Sleep (Outcomes of Sleep Disorders in Older Men) Study**

Selcuk Adabag, Tien N. Vo, Lisa Langsetmo, John T. Schousboe, Peggy M. Cawthon, Katie L. Stone, James M. Shikany, Brent C. Taylor, and Kristine E. Ensrud

e008974. DOI: 10.1161/JAHA.118.008974.

### **Ideal Cardiovascular Health Metrics in Couples: A Community-Based Study**

Sebhat Erqou, Oluremi Ajala, Claudia E. Bambs, Andrew D. Althouse, Michael S. Sharbaugh, Jared Magnani, Aryan Aiyer, and Steven E. Reis

e008768. DOI: 10.1161/JAHA.118.008768.

### **Orthostatic Hypotension and Risk of Clinical and Subclinical Cardiovascular Disease in Middle-Aged Adults**

Stephen P. Juraschek, Natalie Daya, Lawrence J. Appel, Edgar R. Miller III, John William McEvoy, Kunihiko Matsushita, Christie M. Ballantyne, and Elizabeth Selvin

e008884. DOI: 10.1161/JAHA.118.008884.

### **Prevalence of Carotid Plaque in a 63- to 65-Year-Old Norwegian Cohort From the General Population: The ACE (Akershus Cardiac Examination) 1950 Study**

Håkon Ihle-Hansen, Thea Vigen, Hege Ihle-Hansen, Ole Morten Rønning, Trygve Berge, Bente Thommessen, Magnus Nakrem Lyngbakken, Eivind Bjørkan Orstad, Steve Enger, Ståle Nygård, Helge Røsjø, and Arnljot Tveit

e008562. DOI: 10.1161/JAHA.118.008562.

### **Healthcare Utilization and Statin Re-Initiation Among Medicare Beneficiaries With a History of Myocardial Infarction**

John N. Booth III, Lisandro D. Colantonio, Robert S. Rosenson, Monika M. Safford, Ligong Chen, Meredith L. Kilgore, Todd M. Brown, Benjamin Taylor, Ricardo Dent, Keri L. Monda, Paul Muntner, and Emily B. Levitan

e008462. DOI: 10.1161/JAHA.117.008462.

### **Pregnancy-Related Risk Factors Are Associated With a Significant Burden of Treated Hypertension Within 10 Years of Delivery: Findings From a Population-Based Norwegian Cohort**

Grace M. Egeland, Svetlana Skurtveit, Anne Cathrine Staff, Geir Egil Eide, Anne-Kjersti Daltveit, Kari Klungsøyr, Lill Trogstad, Per M. Magnus, Anne Lise Brantsæter, and Margaretha Haugen

e008318. DOI: 10.1161/JAHA.117.008318.

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## Association Between Gestational Hypertension and Risk of Cardiovascular Disease Among 6 17 589 Norwegian Women

Hilde Kristin Refvik Riise, Gerhard Sulo, Grethe S. Tell, Jannicke Iglund, Ottar Nygård, Ann-Charlotte Iversen, and Anne Kjersti Daltveit  
e008337. DOI: 10.1161/JAHA.117.008337.

### Health Services and Outcomes Research

#### Projected Real-World Effectiveness of Using Aggressive Low-Density Lipoprotein Cholesterol Targets Among Elderly Statin Users Following Acute Coronary Syndromes in Canada

David A. Alter, Jack V. Tu, Maria Koh, Cynthia A. Jackevicius, Peter C. Austin, Mohammad R. Rezaei, R. Sacha Bhatia, Sharon Johnston, Jacob A. Udell, and Dennis T. Ko  
e007535. DOI: 10.1161/JAHA.117.007535.

### Heart Failure

#### Race and Beta-Blocker Survival Benefit in Patients With Heart Failure: An Investigation of Self-Reported Race and Proportion of African Genetic Ancestry

Jasmine A. Luzum, Edward Peterson, Jia Li, Ruicong She, Hongsheng Gui, Bin Liu, John A. Spertus, Yigal M. Pinto, L. Keoki Williams, Hani N. Sabbah, and David E. Lanfear  
e007956. DOI: 10.1161/JAHA.117.007956.

### Hypertension

#### Association Between Amplitude of Seasonal Variation in Self-Measured Home Blood Pressure and Cardiovascular Outcomes: HOMED-BP (Hypertension Objective Treatment Based on Measurement By Electrical Devices of Blood Pressure) Study

Tomohiro Hanazawa, Kei Asayama, Daisuke Watabe, Ayumi Tanabe, Michihiro Satoh, Ryusuke Inoue, Azusa Hara, Taku Obara, Masahiro Kikuya, Kyoko Nomura, Hirohito Metoki, Yutaka Imai, and Takayoshi Ohkubo, on behalf of the HOMED-BP (Hypertension Objective Treatment Based on Measurement by Electrical Devices of Blood Pressure) Investigators  
e008509. DOI: 10.1161/JAHA.117.008509.

#### Effect of Wave Reflection and Arterial Stiffness on the Risk of Development of Hypertension in Japanese Men

Hirofumi Tomiyama, Shunsuke Komatsu, Kazuki Shiina, Chisa Matsumoto, Kazutaka Kimura, Masatsune Fujii, Lisa Takahashi, Taishiro Chikamori, and Akira Yamashina  
e008175. DOI: 10.1161/JAHA.117.008175.

#### Epigenetic Regulation of Aldosterone Synthase Gene by Sodium and Angiotensin II

Yoshimichi Takeda, Masashi Demura, Fen Wang, Shigehiro Karashima, Takashi Yoneda, Mitsuhiro Kometani, Atsushi Hashimoto, Daisuke Aono, Shin-ichi Horike, Makiko Meguro-Horike, Masakazu Yamagishi, and Yoshiyu Takeda  
e008281. DOI: 10.1161/JAHA.117.008281.

#### Single-Beat Estimation of Right Ventricular Contractility and Its Coupling to Pulmonary Arterial Load in Patients With Pulmonary Hypertension

Ryo Inuzuka, Steven Hsu, Ryan J. Tedford, and Hideaki Senzaki  
e007929. DOI: 10.1161/JAHA.117.007929.

#### Impact of a History of Hypertension in Pregnancy on Later Diagnosis of Atrial Fibrillation

Dawn C. Scantlebury, Andrea G. Kattah, Tracey L. Weissgerber, Sanket Agarwal, Michelle M. Mielke, Amy L. Weaver, Lisa E. Vaughan, Stanislav Henkin, Katherine Zimmerman, Virginia M. Miller, Wendy M. White, Sharonne N. Hayes, and Vesna D. Garovic  
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## Kidney in Cardiovascular Disease

### Serum Corin Level Is Associated With Subsequent Decline in Renal Function in Patients With Suspected Coronary Artery Disease

Shang-Feng Yang, Ruey-Hsing Chou, Szu-Yuan Li, Shao-Sung Huang, and Po-Hsun Huang

e008157. DOI: 10.1161/JAHA.117.008157.

## Preventive Cardiology

### Sexual Function Is an Indicator of Central Arterial Stiffness and Arterial Stiffness Gradient in Japanese Adult Men

Hiroshi Kumagai, Toru Yoshikawa, Kanae Myoenzono, Keisei Kosaki, Nobuhiko Akazawa, Zempo-Miyaki Asako, Takehiko Tsujimoto, Tetsuhiro Kidokoro, Kiyoji Tanaka, and Seiji Maeda

e007964. DOI: 10.1161/JAHA.117.007964.

### Association Between Adiposity and Lean Mass With Long-Term Cardiovascular Events in Patients With Coronary Artery Disease: No Paradox

Jose R. Medina-Inojosa, Virend K. Somers, Randal J. Thomas, Nathalie Jean, Sarah M. Jenkins, Miguel Angel Gomez-Ibarra, Marta Supervia, and Francisco Lopez-Jimenez

e007505. DOI: 10.1161/JAHA.117.007505.

### Statin Use and Adverse Effects Among Adults >75 Years of Age: Insights From the Patient and Provider Assessment of Lipid Management (PALM) Registry

Michael G. Nanna, Ann Marie Navar, Tracy Y. Wang, Xiaojuan Mi, Salim S. Virani, Michael J. Louie, L. Veronica Lee, Anne C. Goldberg, Veronique L. Roger, Jennifer Robinson, and Eric D. Peterson

e008546. DOI: 10.1161/JAHA.118.008546.

## Stroke

### Increase in Ischemic Stroke Incident Hospitalizations Among Bedouin Arabs During Ramadan Month

Noa Zimhony, Ibrahim Abu-Salameh, Iftach Sagy, Yotam Dizitzer, Liat Oxman, Maayan Yitshak-Sade, Victor Novack, Anat Horev, and Gal Ifergane

e008018. DOI: 10.1161/JAHA.117.008018.

## Vascular Medicine

### Coronary and Peripheral Vasomotor Responses to Mental Stress

Muhammad Hammadah, Jeong Hwan Kim, Ibhar Al Mheid, Ayman Samman Tahhan, Kobina Wilmot, Ronnie Ramadan, Ayman Alkhoder, Mohamed Khayata, Girum Mekonnen, Oleksiy Levantsevych, Yasir Bouchi, Belal Kaseer, Fahad Choudhary, Mohamad M. Gafeer, Frank E. Corrigan III, Amit J. Shah, Laura Ward, Michael Kutner, J. Douglas Bremner, David S. Sheps, Paolo Raggi, Viola Vaccarino, Habib Samady, Kreton Mavromatis, and Arshed A. Quyyumi

e008532. DOI: 10.1161/JAHA.118.008532.

## Systematic Review and Meta-analysis

### Cerebral Protection During Transcatheter Aortic Valve Implantation: An Updated Systematic Review and Meta-Analysis

Luca Testa, Azeem Latib, Matteo Casenghi, Riccardo Gorla, Antonio Colombo, and Francesco Bedogni

e008463. DOI: 10.1161/JAHA.117.008463.

## Contemporary Review

### Transcatheter Aortic Valve Replacement in Intermediate- and Low-Risk Patients

Toby Rogers, Vinod H. Thourani, and Ron Waksman

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