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Editorials

Left Atrium and Cardiovascular Risk: Does Functionality Matter More Than Size?

Ramanathan Parameswaran and Jonathan M. Kalman
e008930. DOI: 10.1161/JAHA.118.008930.

Transcatheter or Surgical Aortic Valve Replacement in Patients With Chronic Lung Disease? The Answer, My Friend, Is Blowin' in the Wind

Dharam J. Kumbhani, Samir R. Kapadia, and Hani Jneid
e008933. DOI: 10.1161/JAHA.118.008933.

Original Research

Arrhythmia and Electrophysiology

Modeling Short QT Syndrome Using Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes

Ibrahim El-Battrawy, Huan Lan, Lukas Cyganek, Zhihan Zhao, Xin Li, Fanis Buljubasic, Siegfried Lang, Gökhan Yücel, Katherine Sattler, Wolfram-Hubertus Zimmermann, Jochen Utikal, Thomas Wieland, Ursula Ravens, Martin Borggrefe, Xiao-Bo Zhou, and Ibrahim Akin
e007394. DOI: 10.1161/JAHA.117.007394.

Characteristics of Phrenic Nerve Injury During Pulmonary Vein Isolation Using a 28-mm Second-Generation Cryoballoon and Short Freeze Strategy

Shinsuke Miyazaki, Takatsugu Kajiyama, Tomonori Watanabe, Masahiro Hada, Kazuya Yamao, Shigeki Kusa, Miyako Igarashi, Hiroaki Nakamura, Hitoshi Hachiya, Hiroshi Tada, Kenzo Hirao, and Yoshito Iesaka
e008249. DOI: 10.1161/JAHA.117.008249.

Predictors of Acute Failure Ablation of Intra-atrial Re-entrant Tachycardia in Patients With Congenital Heart Disease: Cardiac Disease, Atypical Flutter, and Previous Atrial Fibrillation

Ivo Roca-Luque, Nuria Rivas-Gándara, Laura Dos-Subirà, Jaume Francisco-Pascual, Antònia Pijuan-Domenech, Jordi Pérez-Rodon, Alba Santos-Ortega, Ferran Roses-Noguer, Ignacio Ferreira-Gonzalez, David García-Dorado García, and Angel Moya Mitjans
e008063. DOI: 10.1161/JAHA.117.008063.

Cardiovascular Surgery

RIPHeart (Remote Ischemic Preconditioning for Heart Surgery) Study: Myocardial Dysfunction, Postoperative Neurocognitive Dysfunction, and 1 Year Follow-Up

Patrick Meybohm, Madeline Kohlhaas, Christian Stoppe, Matthias Gruenewald, Jochen Renner, Berthold Bein, Martin Albrecht, Jochen Cremer, Mark Coburn, Gereon Schaelte, Andreas Boening, Bernd Niemann, Michael Sander, Jan Roesner, Frank Kletzin, Haitham Mutlak, Sabine Westphal, Rita Laufenberg-Feldmann, Marion Ferner, Ivo F. Brandes, Martin Bauer, Sebastian N. Stehr, Andreas Kortgen, Maria Wittmann, Georg Baumgarten, Tanja Meyer-Treschan, Peter Kienbaum, Matthias Heringlake, Julika Schoen, Sascha Treskatsch, Thorsten Smul, Ewa Wolwender, Thomas Schilling, Georg Fuernau, Holger Bogatsch, Oana Brosteanu, Dirk Hasenclever, and Kai Zacharowski, the RIPHeart (Remote Ischemic Preconditioning for Heart Surgery) Study Collaborators
e008077. DOI: 10.1161/JAHA.117.008077.

Congenital Heart Disease

Prognostic Value of Serial N-Terminal Pro-B-Type Natriuretic Peptide Measurements in Adults With Congenital Heart Disease

Vivan J. M. Baggen, Sara J. Baart, Annemien E. van den Bosch, Jannet A. Eindhoven, Maarten Witsenburg, Judith A. A. E. Cuypers, Jolien W. Roos-Hesselink, and Eric Boersma
e008349. DOI: 10.1161/JAHA.117.008349.

Coronary Heart Disease

Coffee Consumption and Coronary Artery Calcium Score: Cross-Sectional Results of ELSA-Brasil (Brazilian Longitudinal Study of Adult Health)

Andreia M. Miranda, Josiane Steluti, Alessandra C. Goulart, Isabela M. Benseñor, Paulo A. Lotufo, and Dirce M. Marchioni

e007155. DOI: 10.1161/JAHA.117.007155.

Impact of Type 2 Myocardial Infarction (MI) on Hospital-Level MI Outcomes: Implications for Quality and Public Reporting

Sameer Arora, Paula D. Strassle, Arman Qamar, Evan N. Wheeler, Alexandra L. Levine, Jacob A. Misenheimer, Matthew A. Cavender, George A. Stouffer, and Prashant Kaul

e008661. DOI: 10.1161/JAHA.118.008661.

In-Hospital Outcomes of Dual Loading Antiplatelet Therapy in Patients 75 Years and Older With Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention: Findings From the CCC-ACS (Improving Care for Cardiovascular Disease in China-Acute Coronary Syndrome) Project

Guanqi Zhao, Mengge Zhou, Changsheng Ma, Yong Huo, Sidney C. Smith Jr, Gregg C. Fonarow, Junbo Ge, Yaling Han, Jing Liu, Yongchen Hao, Jun Liu, Xiao Wang, Kathryn A. Taubert, Louise Morgan, Dong Zhao, and Shaoping Nie, on behalf of the CCC-ACS Investigators

e008100. DOI: 10.1161/JAHA.117.008100.

Epidemiology

Association of Birthplace and Coronary Heart Disease and Stroke Among US Adults: National Health Interview Survey, 2006 to 2014

Jing Fang, Keming Yuan, Renee M. Gindi, Brian W. Ward, Carma Ayala, and Fleetwood Loustalot

e008153. DOI: 10.1161/JAHA.117.008153.

Relation of Insulin Resistance to Longitudinal Changes in Left Ventricular Structure and Function in a General Population

Nicholas Cauwenberghs, Judita Knez, Lutgarde Thijs, Francois Haddad, Thomas Vanassche, Wen-Yi Yang, Fang-Fei Wei, Jan A. Staessen, and Tatiana Kuznetsova

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Police-Recorded Crime and Disparities in Obesity and Blood Pressure Status in Chicago

Elizabeth L. Tung, Kristen E. Wroblewski, Kelly Boyd, Jennifer A. Makelarski, Monica E. Peek, and Stacy Tessler Lindau

e008030. DOI: 10.1161/JAHA.117.008030.

Association of Left Atrial Function Index with Atrial Fibrillation and Cardiovascular Disease: The Framingham Offspring Study

Mayank Sardana, Darleen Lessard, Connie W. Tsao, Nisha I. Parikh, Bruce A. Barton, Gregory Nah, Randell C. Thomas, Susan Cheng, Nelson B. Schiller, Jayashri R. Aragam, Gary F. Mitchell, Aditya Vaze, Emelia J. Benjamin, Ramachandran S. Vasan, and David D. McManus

e008435. DOI: 10.1161/JAHA.117.008435.

Volume of Light Versus Moderate-to-Vigorous Physical Activity: Similar Benefits for All-Cause Mortality?

Pedro F. Saint-Maurice, Richard P. Troiano, David Berrigan, William E. Kraus, and Charles E. Matthews

e008815. DOI: 10.1161/JAHA.118.008815.

Exercise Physiology

Prognostic Performance of Heart Rate Recovery on an Exercise Test in a Primary Prevention Population

Nóra Sydó, Tibor Sydó, Karina A. Gonzalez Carta, Nasir Hussain, Shausha Farooq, Joseph G. Murphy, Béla Merkely, Francisco Lopez-Jimenez, and Thomas G. Allison

e008143. DOI: 10.1161/JAHA.117.008143.

Health Services and Outcomes Research

Device Therapies Among Patients Receiving Primary Prevention Implantable Cardioverter-Defibrillators in the Cardiovascular Research Network

Robert T. Greenlee, Alan S. Go, Pamela N. Peterson, Andrea E. Cassidy-Bushrow, Charles Gaber, Romel Garcia-Montilla, Karen A. Glenn, Nigel Gupta, Jerry H. Gurwitz, Stephen C. Hammill, John J. Hayes, Alan Kadish, David J. Magid, David D. McManus, Deborah Multerer, J. David Powers, Liza M. Reifler, Kristi Reynolds, Claudio Schuger, Param P. Sharma, David H. Smith, Mary Suits, Sue Hee Sung, Paul D. Varosy, Humberto J. Vidaillet, and Frederick A. Masoudi
e008292. DOI: 10.1161/JAHA.117.008292.

Association of Electronic Health Record Use With Quality of Care and Outcomes in Heart Failure: An Analysis of Get With The Guidelines—Heart Failure

Senthil Selvaraj, Gregg C. Fonarow, Shubin Sheng, Roland A. Matsouaka, Adam D. DeVore, Paul A. Heidenreich, Adrian F. Hernandez, Clyde W. Yancy, and Deepak L. Bhatt
e008158. DOI: 10.1161/JAHA.117.008158.

Timing of Postdischarge Follow-Up and Medication Adherence Among Patients With Heart Failure

Leslie L. Chang, Haolin Xu, Adam D. DeVore, Roland A. Matsouaka, Clyde W. Yancy, Gregg C. Fonarow, Larry A. Allen, and Adrian F. Hernandez
e007998. DOI: 10.1161/JAHA.117.007998.

Heart Failure

Clustered Emergency Room Visits Following an Acute Heart Failure Admission: A Population-Based Study

Juan G. Duero Posada, Yasbanoo Moayed, Limei Zhou, Michael McDonald, Heather J. Ross, Douglas S. Lee, and R. Sacha Bhatia
e007569. DOI: 10.1161/JAHA.117.007569.

Reliability and Physiological Interpretation of Pulmonary Gas Exchange by “Circulatory Equivalents” in Chronic Heart Failure

Chunting Tan, Harry B. Rossiter, Janos Porszasz, T. Scott Bowen, Klaus K. Witte, William W. Stringer, Richard Casaburi, and James E. Hansen
e008072. DOI: 10.1161/JAHA.117.008072.

Experimental Right Ventricular Hypertension Induces Regional β 1-Integrin-Mediated Transduction of Hypertrophic and Profibrotic Right and Left Ventricular Signaling

Mei Sun, Ryo Ishii, Kenichi Okumura, Adrienn Krauszman, Siegfried Breitling, Olga Gomez, Aleksander Hinek, Stellar Boo, Boris Hinz, Kim A. Connelly, Wolfgang M. Kuebler, and Mark K. Friedberg
e007928. DOI: 10.1161/JAHA.117.007928.

Interventional Cardiology

Is Transcatheter Aortic Valve Replacement Better Than Surgical Aortic Valve Replacement in Patients With Chronic Obstructive Pulmonary Disease? A Nationwide Inpatient Sample Analysis

Tomo Ando, Oluwale Adegba, Emmanuel Akintoye, Said Ashraf, Mohit Pahuja, Alexandros Briasoulis, Hisato Takagi, Cindy L. Grines, Luis Afonso, and Theodore Schreiber
e008408. DOI: 10.1161/JAHA.117.008408.

Stroke

Vascular Cognitive Impairment Linked to Brain Endothelium Inflammation in Early Stages of Heart Failure in Mice

Mateusz G. Adamski, Magdalena Sternak, Tasnim Mohaisen, Dawid Kaczor, Joanna M. Wierońska, Monika Malinowska, Iwona Czaban, Katarzyna Byk, Kristina S. Lyngsø, Kamil Przyborowski, Pernille B.L. Hansen, Grzegorz Wilczyński, and Stefan Chlopicki
e007694. DOI: 10.1161/JAHA.117.007694.

Risk of Stroke or Death Is Associated With the Timing of Carotid Artery Stenting for Symptomatic Carotid Stenosis: A Secondary Data Analysis of the German Statutory Quality Assurance Database

Pavlos Tsantilas, Andreas Kuehnl, Michael Kallmayer, Christoph Knappich, Sofie Schmid, Thorben Breitzkreuz, Alexander Zimmermann, and Hans-Henning Eckstein

e007983. DOI: 10.1161/JAHA.117.007983.

Vascular Medicine

Remote Limb Ischemic Preconditioning Attenuates Cerebrovascular Depression During Sinusoidal Galvanic Vestibular Stimulation via α 1-Adrenoceptor-Protein Kinase C ϵ -Endothelial NO Synthase Pathway in Rats

Devin W. McBride, Cesar Reis, John H. Zhang, Richard Applegate II, and Jiping Tang

e007105. DOI: 10.1161/JAHA.117.007105.

The Unexpected Role of Calcium-Activated Potassium Channels: Limitation of NO-Induced Arterial Relaxation

Johannes Schmid, Bettina Müller, David Heppeler, Dina Gaynullina, Mario Kassmann, Hristo Gagov, Mitko Mladenov, Maik Gollasch, and Rudolf Schubert

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Effect of Vegan Fecal Microbiota Transplantation on Carnitine- and Choline-Derived Trimethylamine-N-Oxide Production and Vascular Inflammation in Patients With Metabolic Syndrome

Loek P. Smits, Ruud S. Kootte, Evgeni Levin, Andrei Prodan, Susana Fuentes, Erwin G. Zoetendal, Zeneng Wang, Bruce S. Levison, Maartje C. P. Cleophas, E. Marleen Kemper, Geesje M. Dallinga-Thie, Albert K. Groen, Leo A. B. Joosten, Mihai G. Netea, Erik S. G. Stroes, Willem M. de Vos, Stanley L. Hazen, and Max Nieuwdorp

e008342. DOI: 10.1161/JAHA.117.008342.

Beneficial Pleiotropic Antidepressive Effects of Cardiovascular Disease Risk Factor Interventions in the Metabolic Syndrome

Stephanie J. Frisbee, Sarah S. Singh, Dwayne N. Jackson, Kent A. Lemaster, Samantha A. Milde, J. Kevin Shoemaker, and Jefferson C. Frisbee

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Contemporary Review

Management of Left Main Coronary Artery Disease

Ronnie Ramadan, William E. Boden, and Scott Kinlay

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