



JAHA: Journal of the American Heart Association

Volume 6, Issue 8
August 2017

Editorial Board

e002186. DOI: 10.1161/JAHA.117.002186.

Editorials

Paradox of Appropriate Implantable Cardioverter-Defibrillator Therapy: Saving Lives But Revealing an Increased Mortality Risk

Ryan G. Aleong and William H. Sauer

e007087. DOI: 10.1161/JAHA.117.007087.

Subclinical Valve Thrombosis in Sutureless Bioprosthetic Valves

Bobby Yanagawa, Subodh Verma, and C. David Mazer

e006862. DOI: 10.1161/JAHA.117.006862.

Are Drug Eluting Stents Worth Triple Therapy?

Paul Heidenreich

e006983. DOI: 10.1161/JAHA.117.006983.

In Touch But Out of Time: Aggressive Hospital Discharge and Readmissions After Transcatheter Aortic Valve Replacement

Neal S. Kleiman

e007086. DOI: 10.1161/JAHA.117.007086.

Improved Precision of Initial Chest Pain Evaluation With Fractional Flow Reserve Computed Tomography

Gardar Sigurdsson

e006835. DOI: 10.1161/JAHA.117.006835.

Fractional Flow Reserve in Angiographically Insignificant Stenoses: Unmasking the Lesion or Creating Disease?

Christopher M. Cook and Justin E. Davies

e007085. DOI: 10.1161/JAHA.117.007085.

International Collaboration With Dedicated Local Implementation Improves Survival From Out-of-Hospital Cardiac Arrest

Mary Fran Hazinski and Jerry P. Nolan

e006836. DOI: 10.1161/JAHA.117.006836.

Original Research

Arrhythmia and Electrophysiology

The Impact of Cryoballoon Versus Radiofrequency Ablation for Paroxysmal Atrial Fibrillation on Healthcare Utilization and Costs: An Economic Analysis From the FIRE AND ICE Trial

K. R. Julian Chun, Josep Brugada, Arif Elvan, Laszlo Gellér, Matthias Busch, Alberto Barrera, Richard J. Schilling, Matthew R. Reynolds, Robert B. Hokanson, Reece Holbrook, Benedict Brown, Michael Schlüter, Karl-Heinz Kuck, for the FIRE AND ICE Investigators

e006043. DOI: 10.1161/JAHA.117.006043.

Ectopy on a Single 12-Lead ECG, Incident Cardiac Myopathy, and Death in the Community

Kaylin T. Nguyen, Eric Vittinghoff, Thomas A. Dewland, Jonathan W. Dukes, Elsayed Z. Soliman, Phyllis K. Stein, John S. Gottdiener, Alvaro Alonso, Lin Y. Chen, Bruce M. Psaty, Susan R. Heckbert, and Gregory M. Marcus

e006028. DOI: 10.1161/JAHA.117.006028.

Influence of Sex on the Association Between Epicardial Adipose Tissue and Left Atrial Transport Function in Patients With Atrial Fibrillation: A Multislice Computed Tomography Study

Jin-Seok Kim, Seung Yong Shin, Jun Hyuk Kang, Hwan Seok Yong, Jin Oh Na, Cheol Ung Choi, Seong Hwan Kim, Eung Ju Kim, Seung-Woon Rha, Chang Gyu Park, Hong Seog Seo, Dong Joo Oh, Chun Hwang, Young-Hoon Kim, and Hong Euy Lim
e006077. DOI: 10.1161/JAHA.117.006077.

Atrial Fibrillation in Heart Failure US Ambulatory Cardiology Practices and the Potential for Uptake of Catheter Ablation: An National Cardiovascular Data Registry (NCDR[®]) Research to Practice (R2P) Project

Jehu S. Mathew, Lucas N. Marzec, Kevin F. Kennedy, Phillip G. Jones, Paul D. Varosy, Frederick A. Masoudi, Thomas M. Maddox, and Larry A. Allen
e005273. DOI: 10.1161/JAHA.116.005273.

Physiological Assessment of Ventricular Myocardial Voltage Using Omnipolar Electrograms

Karl Magtibay, Stéphane Massé, John Asta, Marjan Kusha, Patrick F. H. Lai, Mohammed Ali Azam, Andreu Porta-Sanchez, Shouvik Halder, Daniel Malebranche, Christopher Labos, D. Curtis Deno, and Kumaraswamy Nanthakumar
e006447. DOI: 10.1161/JAHA.117.006447.

Sex-Specific Associations of Oral Anticoagulant Use and Cardiovascular Outcomes in Patients With Atrial Fibrillation

Ghanshyam Palamaner Subash Shantha, Amgad Mentias, Chakradhari Inampudi, Anita A. Kumar, Kongkiat Chaikriangkrai, Viraj Bhise, Abhishek Deshmukh, Nileshkumar Patel, Samir Panchoy, Phillip A. Horwitz, Steven Mickelsen, Prashant D. Bhave, Michael Giudici, Hakan Oral, and Mary S. Vaughan Sarrazin
e006381. DOI: 10.1161/JAHA.117.006381.

Mortality Implications of Appropriate Implantable Cardioverter Defibrillator Therapy in Secondary Prevention Patients: Contrasting Mortality in Primary Prevention Patients From a Prospective Population-Based Registry

Fahad Almeahadi, Andreu Porta-Sánchez, Andrew C. T. Ha, Hadas D. Fischer, Xuesong Wang, Peter C. Austin, Douglas S. Lee, and Kumaraswamy Nanthakumar
e006220. DOI: 10.1161/JAHA.117.006220.

Three-dimensional Integrated Functional, Structural, and Computational Mapping to Define the Structural “Fingerprints” of Heart-Specific Atrial Fibrillation Drivers in Human Heart Ex Vivo

Jichao Zhao, Brian J. Hansen, Yufeng Wang, Thomas A. Csepe, Lidiya V. Sul, Alan Tang, Yiming Yuan, Ning Li, Anna Bratasz, Kimerly A. Powell, Ahmet Kilic, Peter J. Mohler, Paul M. L. Janssen, Raul Weiss, Orlando P. Simonetti, John D. Hummel, and Vadim V. Fedorov
e005922. DOI: 10.1161/JAHA.117.005922.

Cardiovascular Surgery

Hypo-Attenuated Leaflet Thickening and Reduced Leaflet Motion in Sutureless Bioprosthetic Aortic Valves

Magnus Dalén, Ulrik Sartipy, Kerstin Cederlund, Anders Franco-Cereceda, Anders Svensson, Raquel Themudo, Peter Svenarud, and Elin Bacsovcics Brolin
e005251. DOI: 10.1161/JAHA.116.005251.

Congenital Heart Disease

Microstructural Alterations and Oligodendrocyte Dysmaturation in White Matter After Cardiopulmonary Bypass in a Juvenile Porcine Model

Gary R. Stinnett, Stephen Lin, Alexandru V. Korotcov, Ludmila Korotcova, Paul D. Morton, Shruti D. Ramachandra, Angeline Pham, Sonali Kumar, Kota Agematsu, David Zurakowski, Paul C. Wang, Richard A. Jonas, and Nobuyuki Ishibashi
e005997. DOI: 10.1161/JAHA.117.005997.

Inspiratory Muscle Training Is Associated With Improved Inspiratory Muscle Strength, Resting Cardiac Output, and the Ventilatory Efficiency of Exercise in Patients With a Fontan Circulation

Karina Laohachai, David Winlaw, Hiran Selvadurai, Ganesh Kumar Gnanappa, Yves d'Udekem, David Celermajer, and Julian Ayer
e005750. DOI: 10.1161/JAHA.117.005750.

Coronary Heart Disease

Kinetics of Circulating MicroRNAs in Response to Cardiac Stress in Patients With Coronary Artery Disease

Felix Jansen, Lisa Schäfer, Han Wang, Theresa Schmitz, Anna Flender, Robert Schueler, Christoph Hammerstingl, Georg Nickenig, Jan-Malte Sinning, and Nikos Werner
e005270. DOI: 10.1161/JAHA.116.005270.

ADPase CD39 Fused to Glycoprotein VI-Fc Boosts Local Antithrombotic Effects at Vascular Lesions

Heidrun Degen, Oliver Borst, Melanie Ziegler, Ann-Katrin Mojica Munoz, Janina Jamasbi, Britta Walker, Silvia Göbel, Julia Fassbender, Kristin Adler, Richard Brandl, Götz Münch, Reinhard Lorenz, Wolfgang Siess, Meinrad Gawaz, and Martin Ungerer
e005991. DOI: 10.1161/JAHA.117.005991.

Downregulation of Cavin-1 Expression via Increasing Caveolin-1 Degradation Prompts the Proliferation and Migration of Vascular Smooth Muscle Cells in Balloon Injury-Induced Neointimal Hyperplasia

Li-Jun Zhou, Xue-Ying Chen, Shui-Ping Liu, Lin-Lin Zhang, Ya-Nan Xu, Pan-Wei Mu, Deng-Feng Geng, and Zhi Tan
e005754. DOI: 10.1161/JAHA.117.005754.

Reduced Antiplatelet Effect of Aspirin Does Not Predict Cardiovascular Events in Patients With Stable Coronary Artery Disease

Sanne Bøjet Larsen, Erik Lerkevang Grove, Søs Neergaard-Petersen, Morten Würtz, Anne-Mette Hvas, and Steen Dalby Kristensen
e006050. DOI: 10.1161/JAHA.117.006050.

Rehospitalizations Following Primary Percutaneous Coronary Intervention in Patients With ST-Elevation Myocardial Infarction: Results From a Multi-Center Randomized Trial

Ernest Spitzer, Martina Frei, Serge Zaugg, Susanne Hadorn, Henning Kelbaek, Miodrag Ostojic, Andreas Baumbach, David Tüller, Marco Roffi, Thomas Engstrom, Giovanni Pedrazzini, Vladan Vukcevic, Michael Magro, Ran Kornowski, Thomas F. Lüscher, Clemens von Birgelen, Dik Heg, Stephan Windecker, and Lorenz Räber
e005926. DOI: 10.1161/JAHA.117.005926.

Alirocumab Treatment and Achievement of Non-High-Density Lipoprotein Cholesterol and Apolipoprotein B Goals in Patients With Hypercholesterolemia: Pooled Results From 10 Phase 3 ODYSSEY Trials

Harold E. Bays, Lawrence A. Leiter, Helen M. Colhoun, Desmond Thompson, Laurence Bessac, Robert Pordy, and Peter P. Toth
e005639. DOI: 10.1161/JAHA.117.005639.

Predictors of Intramyocardial Hemorrhage After Reperfused ST-Segment Elevation Myocardial Infarction

Raquel P. Amier, Ruben Y. G. Tijssen, Paul F. A. Teunissen, Rodrigo Fernández-Jiménez, Gonzalo Pizarro, Inés García-Lunar, Teresa Bastante, Peter M. van de Ven, Aernout M. Beek, Martijn W. Smulders, Sebastiaan C. A. M. Bekkers, Niels van Royen, Borja Ibanez, and Robin Nijveldt
e005651. DOI: 10.1161/JAHA.117.005651.

Prognostic Value of the CHADS₂ Score for Adverse Cardiovascular Events in Coronary Artery Disease Patients Without Atrial Fibrillation—A Multi-Center Observational Cohort Study

Noriaki Tabata, Eiichiro Yamamoto, Seiji Hokimoto, Takayoshi Yamashita, Daisuke Sueta, Seiji Takashio, Yuichiro Arima, Yasuhiro Izumiya, Sunao Kojima, Koichi Kaikita, Kunihiko Matsui, Kazuteru Fujimoto, Kenji Sakamoto, Hideki Shimomura, Ryusuke Tsunoda, Toyoki Hirose, Natsuki Nakamura, Naritsugu Sakaino, Shinichi Nakamura, Nobuyasu Yamamoto, Toshiyuki Matsumura, Ichiro Kajiwara, Shunichi Koide, Tomohiro Sakamoto, Koichi Nakao, Shuichi Oshima, Kenichi Tsujita, On behalf of Kumamoto Intervention Conference Study (KICS) Investigators
e006355. DOI: 10.1161/JAHA.117.006355.

Association Between Acidosis Soon After Reperfusion and Contrast-Induced Nephropathy in Patients With a First-Time ST-Segment Elevation Myocardial Infarction

Masaomi Gohbara, Azusa Hayakawa, Yusuke Akazawa, Shuta Furihata, Ai Kondo, Yusuke Fukushima, Sakie Tomari, Tsutomu Endo, Kazuo Kimura, and Kouichi Tamura
e006380. DOI: 10.1161/JAHA.117.006380.

Selection of Stent Type in Patients With Atrial Fibrillation Presenting With Acute Myocardial Infarction: An Analysis From the ACTION (Acute Coronary Treatment and Intervention Outcomes Network) Registry—Get With the Guidelines

Amit N. Vora, Tracy Y. Wang, Shuang Li, Karen Chiswell, Connie Hess, Renato D. Lopes, Sunil V. Rao, and Eric D. Peterson
e005280. DOI: 10.1161/JAHA.116.005280.

Sex Differences in Associations of Arterial Compliance With Coronary Artery Plaque and Calcification Burden

Thais Coutinho, Yeung Yam, Girish Dwivedi, João Inácio, and Benjamin J.W. Chow
e006079. DOI: 10.1161/JAHA.117.006079.

Delayed Care and Mortality Among Women and Men With Myocardial Infarction

Raffaele Bugiardini, Beatrice Ricci, Edina Cenko, Zorana Vasiljevic, Sasko Kedev, Goran Davidovic, Marija Zdravkovic, Davor Miličić, Mirza Dilic, Olivia Manfrini, Akos Koller, and Lina Badimon
e005968. DOI: 10.1161/JAHA.117.005968.

Epidemiology

Association Between High-Sensitivity Cardiac Troponin I and Cardiac Events in Elderly Women

Joshua R. Lewis, Wai H. Lim, Germaine Wong, Samuel Abbs, Kun Zhu, Ee M. Lim, Peter L. Thompson, and Richard L. Prince
e004174. DOI: 10.1161/JAHA.116.004174.

Vascular Endothelial Growth Factor and Ischemic Heart Disease Risk: A Mendelian Randomization Study

Shiu Lun Au Yeung, Hugh Simon Hung San Lam, and C. Mary Schooling
e005619. DOI: 10.1161/JAHA.117.005619.

Association of High-Density Lipoprotein-Cholesterol Versus Apolipoprotein A-I With Risk of Coronary Heart Disease: The European Prospective Investigation Into Cancer-Norfolk Prospective Population Study, the Atherosclerosis Risk in Communities Study, and the Women's Health Study

Julian C. van Capelleveen, Andrea E. Bochém, S. Matthijs Boekholdt, Samia Mora, Ron C. Hoogeveen, Christie M. Ballantyne, Paul M. Ridker, Wensheng Sun, Philip J. Barter, Alan R. Tall, Aeilko H. Zwinderman, John J. P. Kastelein, Nick J. Wareham, Kay-Tee Khaw, and G. Kees Hovingh
e006636. DOI: 10.1161/JAHA.117.006636.

Cardiovascular Disease Burden and Socioeconomic Correlates: Findings From the Jackson Heart Study

Yuan-I Min, Pramod Anugu, Kenneth R. Butler, Tara A. Hartley, Stanford Mwasongwe, Arnita F. Norwood, Mario Sims, Wei Wang, Karen P. Winters, and Adolfo Correa
e004416. DOI: 10.1161/JAHA.116.004416.

Birth Weight, Postnatal Weight Gain, and Childhood Adiposity in Relation to Lipid Profile and Blood Pressure During Early Adolescence

Andraea Van Hulst, Tracie A. Barnett, Gilles Paradis, Marie-Hélène Roy-Gagnon, Lilianne Gomez-Lopez, and Mélanie Henderson
e006302. DOI: 10.1161/JAHA.117.006302.

Physical Activity, Sedentary Behavior, and Long-Term Changes in Aortic Stiffness: The Whitehall II Study

Sara Ahmadi-Abhari, Severine Sabia, Martin J. Shipley, Mika Kivimäki, Archana Singh-Manoux, Adam Tabak, Carmel McEnery, Ian B. Wilkinson, and Eric J. Brunner
e005974. DOI: 10.1161/JAHA.117.005974.

Incidence Rate of Cardiovascular Disease End Points in the National Aeronautics and Space Administration Astronaut Corps

Carl J. Ade, Ryan M. Broxterman, Jacqueline M. Charvat, and Thomas J. Barstow
e005564. DOI: 10.1161/JAHA.117.005564.

Socioeconomic Position Is Associated With Carotid Intima-Media Thickness in Mid-Childhood: The Longitudinal Study of Australian Children

Richard S. Liu, Fiona K. Mensah, John Carlin, Ben Edwards, Sarath Ranganathan, Michael Cheung, Terence Dwyer, Richard Saffery, Costan G. Magnussen, Markus Juonala, Melissa Wake, David P. Burgner, On behalf of the Child Health CheckPoint Investigator Group
e005925. DOI: 10.1161/JAHA.117.005925.

Socioeconomic Status and Incidence of Hospitalization With Lower-Extremity Peripheral Artery Disease: Atherosclerosis Risk in Communities Study

Priya Vart, Josef Coresh, Lucia Kwak, Shoshana H. Ballew, Gerardo Heiss, and Kunihiro Matsushita
e004995. DOI: 10.1161/JAHA.116.004995.

Prevalence and Characteristics of Carotid Artery High-Risk Atherosclerotic Plaques in Chinese Patients With Cerebrovascular Symptoms: A Chinese Atherosclerosis Risk Evaluation II Study

Xihai Zhao, Daniel S. Hippe, Rui Li, Gador M. Canton, Binbin Sui, Yan Song, Feiyu Li, Yunjing Xue, Jie Sun, Kiyofumi Yamada, Thomas S. Hatsukami, Dongxiang Xu, Maoxue Wang, and Chun Yuan
e005831. DOI: 10.1161/JAHA.117.005831.

Childhood Age and Associations Between Childhood Metabolic Syndrome and Adult Risk for Metabolic Syndrome, Type 2 Diabetes Mellitus and Carotid Intima Media Thickness: The International Childhood Cardiovascular Cohort Consortium

Juha Koskinen, Costan G. Magnussen, Alan Sinaiko, Jessica Woo, Elaine Urbina, David R. Jacobs, Jr, Julia Steinberger, Ronald Prineas, Matthew A. Sabin, Trudy Burns, Gerald Berenson, Lydia Bazzano, Alison Venn, Jorma S.A. Viikari, Nina Hutri-Kähönen, Olli Raitakari, Terence Dwyer, and Markus Juonala
e005632. DOI: 10.1161/JAHA.117.005632.

Effect of Multifactorial Treatment Targets and Relative Importance of Hemoglobin A1c, Blood Pressure, and Low-Density Lipoprotein-Cholesterol on Cardiovascular Diseases in Chinese Primary Care Patients With Type 2 Diabetes Mellitus: A Population-Based Retrospective Cohort Study

Eric Yuk Fai Wan, Colman Siu Cheung Fung, Esther Yee Tak Yu, Weng Yee Chin, Daniel Yee Tak Fong, Anca Ka Chun Chan, and Cindy Lo Kuen Lam
e006400. DOI: 10.1161/JAHA.117.006400.

Inter-Relations of Orthostatic Blood Pressure Change, Aortic Stiffness, and Brain Structure and Function in Young Adults

Leroy L. Cooper, Jayandra J. Himali, Alyssa Torjesen, Connie W. Tsao, Alexa Beiser, Naomi M. Hamburg, Charles DeCarli, Ramachandran S. Vasam, Sudha Seshadri, Matthew P. Pase, and Gary F. Mitchell
e006206. DOI: 10.1161/JAHA.117.006206.

Exposure to Violence and Carotid Artery Intima-Media Thickness in Mexican Women

Mario H. Flores-Torres, Rebekka Lynch, Ruy Lopez-Ridaura, Elsa Yunes, Adriana Monge, Eduardo Ortiz-Panozo, Carlos Cantu-Brito, Arna Hauksdóttir, Unnur Valdimarsdóttir, and Martín Lajous
e006249. DOI: 10.1161/JAHA.117.006249.

The Metabolic Syndrome and Risk of Sudden Cardiac Death: The Atherosclerosis Risk in Communities Study

Paul L. Hess, Hussein R. Al-Khalidi, Daniel J. Friedman, Hillary Mulder, Anna Kucharska-Newton, Wayne R. Rosamond, Renato D. Lopes, Bernard J. Gersh, Daniel B. Mark, Lesley H. Curtis, Wendy S. Post, Ronald J. Prineas, Nona Sotoodehnia, and Sana M. Al-Khatib
e006103. DOI: 10.1161/JAHA.117.006103.

Exercise Physiology

Cardiac Adaptations to High-Intensity Aerobic Training in Premenopausal and Recent Postmenopausal Women: The Copenhagen Women Study

Jon Egelund, Peter G. Jørgensen, Camilla M. Mandrup, Thomas Fritz-Hansen, Bente Stallknecht, Jens Bangsbo, Michael Nyberg, and Ylva Hellsten
e005469. DOI: 10.1161/JAHA.117.005469.

Genetics

De Novo *FGF12* (Fibroblast Growth Factor 12) Functional Variation Is Potentially Associated With Idiopathic Ventricular Tachycardia

Qianqian Li, Yuanyuan Zhao, Gang Wu, Shanshan Chen, Yingchao Zhou, Sisi Li, Mengchen Zhou, Qian Fan, Jielin Pu, Kui Hong, Xiang Cheng, Qing Kenneth Wang, and Xin Tu
e006130. DOI: 10.1161/JAHA.117.006130.

Health Services and Outcomes Research

Age and Sex Disparities in Discharge Statin Prescribing in the Stroke Belt: Evidence From the Reasons for Geographic and Racial Differences in Stroke Study

Karen C. Albright, Virginia J. Howard, George Howard, Paul Muntner, Vera Bittner, Monika M. Safford, Amelia K. Boehme, J. David Rhodes, T. Mark Beasley, Suzanne E. Judd, Leslie A. McClure, Nita Limdi, and Justin Blackburn
e005523. DOI: 10.1161/JAHA.117.005523.

Quality of Care of the Initial Patient Cohort of the Diabetes Collaborative Registry®

Suzanne V. Arnold, Abhinav Goyal, Silvio E. Inzucchi, Darren K. McGuire, Fengming Tang, Sanjeev N. Mehta, Laurence S. Sperling, Thomas M. Maddox, Daniel Einhorn, Nathan D. Wong, Niklas Hammar, Peter Fenici, Kamlesh Khunti, Carolyn S. P. Lam, and Mikhail Kosiborod

e005999. DOI: 10.1161/JAHA.117.005999.

Impact of Spontaneous Extracranial Bleeding Events on Health State Utility in Patients with Atrial Fibrillation: Results from the ENGAGE AF-TIMI 48 Trial

Kaijun Wang, Haiyan Li, Winghan J. Kwong, Elliott M. Antman, Christian T. Ruff, Robert P. Giugliano, David J. Cohen, Elizabeth A. Magnuson, on behalf of the ENGAGE AF-TIMI 48 Trial Investigators

e006703. DOI: 10.1161/JAHA.117.006703.

Hospital Practice of Direct-Home Discharge and 30-Day Readmission After Transcatheter Aortic Valve Replacement in the Society of Thoracic Surgeons/American College of Cardiology Transcatheter Valve Therapy (STS/ACC TVT) Registry

John A. Dodson, Mathew R. Williams, David J. Cohen, Pratik Manandhar, Sreekanth Vemulapalli, Caroline Blaum, Hua Zhong, John S. Rumsfeld, and Judith S. Hochman

e006127. DOI: 10.1161/JAHA.117.006127.

Heart Failure

Current Management of Hyponatremia in Acute Heart Failure: A Report From the Hyponatremia Registry for Patients With Euvolemic and Hypervolemic Hyponatremia (HN Registry)

Mark E. Dunlap, Paul J. Hauptman, Alpesh N. Amin, Sandra L. Chase, Joseph A. Chio DOIII, Jun R. Chiong, and Joseph F. Dasta

e005261. DOI: 10.1161/JAHA.116.005261.

Novel Urinary Peptidomic Classifier Predicts Incident Heart Failure

Zhen-Yu Zhang, Susana Ravassa, Esther Nkuipou-Kenfack, Wen-Yi Yang, Shona M. Kerr, Thomas Koeck, Archie Campbell, Tatiana Kuznetsova, Harald Mischak, Sandosh Padmanabhan, Anna F. Dominiczak, Christian Delles, and Jan A. Staessen

e005432. DOI: 10.1161/JAHA.116.005432.

Glucose Homeostasis, Pancreatic Endocrine Function, and Outcomes in Advanced Heart Failure

Vojtech Melenovsky, Jan Benes, Janka Franekova, Jan Kovar, Barry A. Borlaug, Marketa Segetova, Andrea Tura, and Tereza Pelikanova

e005290. DOI: 10.1161/JAHA.116.005290.

High Perforin-Positive Cardiac Cell Infiltration and Male Sex Predict Adverse Long-Term Mortality in Patients With Inflammatory Cardiomyopathy

Felicitas Escher, Uwe Kühl, Dirk Lassner, Andrea Stroux, Ulrich Gross, Dirk Westermann, Burkert Pieske, Wolfgang Poller, and Heinz-Peter Schultheiss

e005352. DOI: 10.1161/JAHA.116.005352.

Serum Nprilysin and Recurrent Admissions in Patients With Heart Failure

Julio Núñez, Eduardo Núñez, Jaume Barallat, Vicent Bodí, Gema Miñana, M. Cruz Pastor, Juan Sanchis, Josep Lupón, and Antoni Bayes-Genis

e005712. DOI: 10.1161/JAHA.117.005712.

A Systems Biology Approach to Investigating Sex Differences in Cardiac Hypertrophy

Josephine Harrington, Natasha Fillmore, Shougou Gao, Yanqin Yang, Xue Zhang, Poching Liu, Andrea Stoehr, Ye Chen, Danielle Springer, Jun Zhu, Xujing Wang, and Elizabeth Murphy

e005838. DOI: 10.1161/JAHA.117.005838.

Sudden Cardiac Death in Women With Suspected Ischemic Heart Disease, Preserved Ejection Fraction, and No Obstructive Coronary Artery Disease: A Report From the Women's Ischemia Syndrome Evaluation Study

Puja K. Mehta, B. Delia Johnson, Tanya S. Kenkre, Wafia Eteiba, Barry Sharaf, Carl J. Pepine, Steven E. Reis, William J. Rogers, Sheryl F. Kelsey, Diane V. Thompson, Vera Bittner, George Sopko, Leslee J. Shaw, and C. Noel Bairey Merz

e005501. DOI: 10.1161/JAHA.117.005501.

Hypertension

Association of Blood Pressure Control Level With Left Ventricular Morphology and Function and With Subclinical Cerebrovascular Disease

Koki Nakanishi, Zhezhen Jin, Shunichi Homma, Mitchell S. V. Elkind, Tatjana Rundek, Aylin Tugcu, Ralph L. Sacco, and Marco R. Di Tullio
e006246. DOI: 10.1161/JAHA.117.006246.

Blood Pressure in 6-Year-Old Children Born Extremely Preterm

Anna-Karin Edstedt Bonamy, Lilly-Ann Mohlkert, Jenny Hallberg, Petru Liuba, Vineta Fellman, Magnus Domellöf, and Mikael Norman
e005858. DOI: 10.1161/JAHA.117.005858.

Activation of Transient Receptor Potential Melastatin Subtype 8 Attenuates Cold-Induced Hypertension Through Ameliorating Vascular Mitochondrial Dysfunction

Shiqiang Xiong, Bin Wang, Shaoyang Lin, Hexuan Zhang, Yingsha Li, Xing Wei, Yuanting Cui, Xiao Wei, Zongshi Lu, Peng Gao, Li Li, Zhigang Zhao, Daoyan Liu, and Zhiming Zhu
e005495. DOI: 10.1161/JAHA.117.005495.

Blood Pressure Response to Main Renal Artery and Combined Main Renal Artery Plus Branch Renal Denervation in Patients With Resistant Hypertension

Karl Fengler, Sebastian Ewen, Robert Höllriegel, Karl-Philipp Rommel, Saaraaken Kulenthiran, Lucas Lauder, Bodo Cremers, Gerhard Schuler, Axel Linke, Michael Böhm, Felix Mahfoud, and Philipp Lurz
e006196. DOI: 10.1161/JAHA.117.006196.

What Is the Relationship Between Dairy Intake and Blood Pressure in Black and White Children and Adolescents Enrolled in a Weight Management Program?

Diane M. DellaValle, Janet Carter, Molly Jones, and Melissa Howard Henshaw
e004593. DOI: 10.1161/JAHA.116.004593.

Sirtuin 3 Deficiency Accelerates Hypertensive Cardiac Remodeling by Impairing Angiogenesis

Tong Wei, Gaojian Huang, Jing Gao, Chenglin Huang, Mengwei Sun, Jian Wu, Juan Bu, and Weili Shen
e006114. DOI: 10.1161/JAHA.117.006114.

Imaging

Myocardial Perfusion Imaging Versus Computed Tomography Angiography–Derived Fractional Flow Reserve Testing in Stable Patients With Intermediate-Range Coronary Lesions: Influence on Downstream Diagnostic Workflows and Invasive Angiography Findings

Bjarne L. Nørgaard, Lars C. Gormsen, Hans Erik Bøtker, Erik Parner, Lene H. Nielsen, Ole N. Mathiassen, Erik L. Grove, Kristian A. Øvrehus, Sara Gaur, Jonathon Leipsic, Kamilla Pedersen, Christian J. Terkelsen, Ewald H. Christiansen, Anne Kaltoft, Michael Mæng, Steen D. Kristensen, Lars R. Krusell, Jens F. Lassen, and Jesper M. Jensen
e005587. DOI: 10.1161/JAHA.117.005587.

Interventional Cardiology

Clinical Outcomes of Deferred Lesions With Angiographically Insignificant Stenosis But Low Fractional Flow Reserve

Joo Myung Lee, Bon-Kwon Koo, Eun-Seok Shin, Chang-Wook Nam, Joon-Hyung Doh, Xinyang Hu, Fei Ye, Shaoliang Chen, Junqing Yang, Jiyang Chen, Nobuhiro Tanaka, Hiroyoshi Yokoi, Hitoshi Matsuo, Hiroaki Takashima, Yasutsugu Shiono, Doyeon Hwang, Jonghanne Park, Kyung-Jin Kim, Takashi Akasaka, and Jianan Wang
e006071. DOI: 10.1161/JAHA.117.006071.

Kidney in Cardiovascular Disease

Angiotensin II Type 1 Receptor-Associated Protein Regulates Kidney Aging and Lifespan Independent of Angiotensin

Kazushi Uneda, Hiromichi Wakui, Akinobu Maeda, Kengo Azushima, Ryu Kobayashi, Sona Haku, Kohji Ohki, Kotaro Haruhara, Sho Kinguchi, Miyuki Matsuda, Masato Ohsawa, Shintaro Minegishi, Tomoaki Ishigami, Yoshiyuki Toya, Yoshitoshi Atobe, Akio Yamashita, Satoshi Umemura, and Kouichi Tamura
e006120. DOI: 10.1161/JAHA.117.006120.

Molecular Cardiology

Modeling Treatment Response for Lamin A/C Related Dilated Cardiomyopathy in Human Induced Pluripotent Stem Cells

Yee-Ki Lee, Yee-Man Lau, Zhu-Jun Cai, Wing-Hon Lai, Lai-Yung Wong, Hung-Fat Tse, Kwong-Man Ng, and Chung-Wah Siu
e005677. DOI: 10.1161/JAHA.117.005677.

Prenatal Mechanistic Target of Rapamycin Complex 1 (m TORC1) Inhibition by Rapamycin Treatment of Pregnant Mice Causes Intrauterine Growth Restriction and Alters Postnatal Cardiac Growth, Morphology, and Function

Maria Hennig, Saskia Fiedler, Christian Jux, Ludwig Thierfelder, and Jörg-Detlef Drenckhahn
e005506. DOI: 10.1161/JAHA.117.005506.

Inhibition of Mutant α B Crystallin-Induced Protein Aggregation by a Molecular Tweezer

Na Xu, Gal Bitan, Thomas Schrader, Frank-Gerrit Klärner, Hanna Osinska, and Jeffrey Robbins
e006182. DOI: 10.1161/JAHA.117.006182.

Preventive Cardiology

Self-Reported Health and Outcomes in Patients With Stable Coronary Heart Disease

Ralph A. H. Stewart, Emil Hagström, Claes Held, Tom Kai Ming Wang, Paul W. Armstrong, Philip E. Aylward, Christopher P. Cannon, Wolfgang Koenig, José Luis López-Sendón, Emile R. MohlerIII, Nermin Hadziosmanovic, Susan Krug-Gourley, Marco Antonio Ramos Corrales, Saulat Siddique, Philippe Gabriel Steg, Harvey D. White, Lars Wallentin, on behalf of the STABILITY Investigators
e006096. DOI: 10.1161/JAHA.117.006096.

Association Between Smoking and Serum GlycA and High-Sensitivity C-Reactive Protein Levels: The Multi-Ethnic Study of Atherosclerosis (MESA) and Brazilian Longitudinal Study of Adult Health (ELSA-Brasil)

Sina Kianoush, Marcio Bittencourt, Paulo Lotufo, Isabela Bensenor, Steven R. Jones, Andrew P. DeFilippis, Peter Toth, James D. Otvos, Martin Tibuakuu, Michael E. Hall, Paulo H. N. Harada, and Michael J. Blaha
e006545. DOI: 10.1161/JAHA.117.006545.

Resuscitation Science

Impact of Right Ventricular Performance in Patients Undergoing Extracorporeal Membrane Oxygenation Following Cardiac Surgery

Philipp E. Bartko, Dominik Wiedemann, Lore Schrutka, Christina Binder, Carlos G. Santos-Gallego, Andreas Zuckermann, Barbara Steinlechner, Herbert Koinig, Gottfried Heinz, Alexander Niessner, Daniel Zimpfer, Günther Laufer, Irene M. Lang, Klaus Distelmaier, and Georg Goliash
e005455. DOI: 10.1161/JAHA.116.005455.

Improving Outcomes of Witnessed Out-of-Hospital Cardiac Arrest After Implementation of International Liaison Committee on Resuscitation 2010 Consensus: A Nationwide Prospective Observational Population-Based Study

Hidehiro Kaneko, Masahiko Hara, Kazuki Mizutani, Minoru Yoshiyama, Kensuke Yokoi, Daijiro Kabata, Ayumi Shintani, and Tetsuhisa Kitamura
e004959. DOI: 10.1161/JAHA.116.004959.

Stroke

C-C Chemokine Receptor Type 5 (CCR5)-Mediated Docking of Transferred Tregs Protects Against Early Blood-Brain Barrier Disruption After Stroke

Peiyong Li, Long Wang, Yuxi Zhou, Yu Gan, Wen Zhu, Yuguo Xia, Xiaoyan Jiang, Simon Watkins, Alberto Vazquez, Angus W. Thomson, Jun Chen, Weifeng Yu, and Xiaoming Hu
e006387. DOI: 10.1161/JAHA.117.006387.

Utilization of Statins Beyond the Initial Period After Stroke and 1-Year Risk of Recurrent Stroke

Meng Lee, Jeffrey L. Saver, Yi-Ling Wu, Sung-Chun Tang, Jiann-Der Lee, Neal M. Rao, Hui-Hsuan Wang, Jiann-Shing Jeng, Tsong-Hai Lee, Pei-Chun Chen, and Bruce Ovbiagele
e005658. DOI: 10.1161/JAHA.117.005658.

Persistent Hyperglycemia Is Associated With Increased Mortality After Intracerebral Hemorrhage

Teddy Y. Wu, Jukka Putaala, Gagan Sharma, Daniel Strbian, Turgut Tatlisumak, Stephen M. Davis, and Atte Meretoja
e005760. DOI: 10.1161/JAHA.117.005760.

Left Atrial Size and Long-Term Risk of Recurrent Stroke After Acute Ischemic Stroke in Patients With Nonvalvular Atrial Fibrillation

Toshiyasu Ogata, Ryu Matsuo, Fumi Kiyuna, Jun Hata, Tetsuro Ago, Yoshio Tsuboi, Takanari Kitazono, Masahiro Kamouchi, on behalf of the FSR Investigators
e006402. DOI: 10.1161/JAHA.117.006402.

Vascular Medicine

α_1 -Adrenergic Receptors Function Within Hetero-Oligomeric Complexes With Atypical Chemokine Receptor 3 and Chemokine (C-X-C motif) Receptor 4 in Vascular Smooth Muscle Cells

Lauren J. Albee, Jonathan M. Eby, Abhishek Tripathi, Heather M. LaPorte, Xianlong Gao, Brian F. Volkman, Vadim Gaponenko, and Matthias Majetschak
e006575. DOI: 10.1161/JAHA.117.006575.

Systematic Review and Meta-analysis

Inflammatory Bowel Disease and Risk of Ischemic Heart Disease: An Updated Meta-Analysis of Cohort Studies

Wan Feng, Guangxia Chen, Dawei Cai, Song Zhao, Jiafei Cheng, and Hong Shen
e005892. DOI: 10.1161/JAHA.117.005892.

Transcatheter Pulmonary Valve Implantation: A Comprehensive Systematic Review and Meta-Analyses of Observational Studies

Arka Chatterjee, Navkaranbir S. Bajaj, William S. McMahon, Marc G. Cribbs, Jeremy S. White, Amrita Mukherjee, and Mark A. Law
e006432. DOI: 10.1161/JAHA.117.006432.

Cardiovascular Adverse Events in Patients With Cancer Treated With Bevacizumab: A Meta-Analysis of More Than 20 000 Patients

Matthias Totzeck, Raluca Ileana Mincu, and Tienush Rassaf
e006278. DOI: 10.1161/JAHA.117.006278.

Association of Epicardial Adipose Tissue and High-Risk Plaque Characteristics: A Systematic Review and Meta-Analysis

Nitesh Nerlekar, Adam J. Brown, Rahul G. Muthalaly, Andrew Talman, Thushan Hettige, James D. Cameron, and Dennis T. L. Wong
e006379. DOI: 10.1161/JAHA.117.006379.

Radial Artery and Ulnar Artery Occlusions Following Coronary Procedures and the Impact of Anticoagulation: *ARTEMIS* (Radial and Ulnar *ARTE*ry Occlusion *Meta*-*Analys**S*) Systematic Review and Meta-Analysis

George Hahalis, Konstantinos Aznaouridis, Gregory Tsigkas, Periklis Davlouros, Ioanna Xanthopoulou, Nikolaos Koutsogiannis, Ioanna Koniari, Marianna Leopoulou, Olivier Costerousse, Dimitris Tousoulis, and Olivier F. Bertrand
e005430. DOI: 10.1161/JAHA.116.005430.

Contemporary Review

Role of Volume Redistribution in the Congestion of Heart Failure

Marat Fudim, Adrian F. Hernandez, and G. Michael Felker
e006817. DOI: 10.1161/JAHA.117.006817.

Journal of the American Heart Association



6 (8)

J Am Heart Assoc. 2017;6::; originally published August 1, 2017;

The *Journal of the American Heart Association* is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231
Online ISSN: 2047-9980

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

<http://jaha.ahajournals.org/content/6/8.citation>

Subscriptions, Permissions, and Reprints: The *Journal of the American Heart Association* is an online only Open Access publication. Visit the Journal at <http://jaha.ahajournals.org> for more information.