



## JAHA: Journal of the American Heart Association

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### Editorials

#### Renal Denervation Therapy for the Treatment of Arrhythmias: Is the Sky the Limit?

Prashant D. Bhave

e005342. DOI: 10.1161/JAHA.116.005342.

#### Sex and Outcomes After Percutaneous Coronary Intervention: A Cause for Concern for Young Women and Those With ST-Segment Elevation Myocardial Infarction?

Jacqueline E. Tamis-Holland

e005739. DOI: 10.1161/JAHA.117.005739.

#### Warning About Shortcuts in Drug Development

Robert M. Califf

e005737. DOI: 10.1161/JAHA.117.005737.

#### "Kids Save Lives": Educating Schoolchildren in Cardiopulmonary Resuscitation Is a Civic Duty That Needs Support for Implementation

Bernd W. Böttiger, Federico Semeraro, and Sabine Wingen

e005738. DOI: 10.1161/JAHA.117.005738.

#### Clinical Impact and Costs of Echocardiographic Screening for Rheumatic Heart Disease

James N. Kirkpatrick and Catherine M. Otto

e005666. DOI: 10.1161/JAHA.117.005666.

### Original Research

#### Arrhythmia and Electrophysiology

##### Efficacy of Prophylactic Dexmedetomidine in Preventing Postoperative Junctional Ectopic Tachycardia After Pediatric Cardiac Surgery

Doaa Mohamed El Amrousy, Nagat S. Elshmaa, Mohamed El-Kashlan, Samir Hassan, Mohamed Elsanosy, Nahed Hablas, Shima Elrifayeh, and Wael El-Feky

e004780. DOI: 10.1161/JAHA.116.004780.

##### Frequency Gradient Within Coronary Sinus Predicts the Long-Term Outcome of Persistent Atrial Fibrillation Catheter Ablation

Xiaomeng Yin, Ziming Zhao, Lianjun Gao, Dong Chang, Xianjie Xiao, Rongfeng Zhang, Qi Chen, Jie Cheng, Yanzong Yang, Yutao Xi, and Yunlong Xia

e004869. DOI: 10.1161/JAHA.116.004869.

##### Beneficial Effect of Renal Denervation on Ventricular Premature Complex Induced Cardiomyopathy

Shinya Yamada, Li-Wei Lo, Yu-Hui Chou, Wei-Lun Lin, Shih-Lin Chang, Yenn-Jiang Lin, Shin-Huei Liu, Wen-Han Cheng, Tsung-Ying Tsai, and Shih-Ann Chen

e004479. DOI: 10.1161/JAHA.116.004479.

##### Impacts of Renal Sympathetic Activation on Atrial Fibrillation: The Potential Role of the Autonomic Cross Talk Between Kidney and Heart

Lilei Yu, Bing Huang, Zhuo Wang, Songyun Wang, Menglong Wang, Xuefei Li, Liping Zhou, Guannan Meng, Shenxu Yuan, Xiaoya Zhou, and Hong Jiang

e004716. DOI: 10.1161/JAHA.116.004716.

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## **Cardioversion Efficacy Using Pulsed Biphasic or Biphasic Truncated Exponential Waveforms: A Randomized Clinical Trial**

Anders S. Schmidt, Kasper G. Lauridsen, Kasper Adelborg, Peter Torp, Leif F. Bach, Simon M. Jepsen, Nete Hornung, Charles D. Deakin, Hans Rickers, and Bo Løfgren

e004853. DOI: 10.1161/JAHA.116.004853.

## **Atrial Arrhythmias and Electroanatomical Remodeling in Patients With Left Ventricular Assist Devices**

Amrish Deshmukh, Gene Kim, Martin Burke, Emeka Anyanwu, Valluvan Jeevanandam, Nir Uriel, Roderick Tung, and Cevher Ozcan

e005340. DOI: 10.1161/JAHA.116.005340.

## **Characterization of Foci and Breakthrough Sites During Persistent and Long-Standing Persistent Atrial Fibrillation in Patients: Studies Using High-Density (5 10–5 12 Electrodes) Batrial Epicardial Mapping**

Seungyup Lee, Jayakumar Sahadevan, Celeen M. Khrestian, Alan Markowitz, and Albert L. Waldo

e005274. DOI: 10.1161/JAHA.116.005274.

## **Cardiovascular Surgery**

### **Impact of Achieved Blood Pressure on First Stroke in Uncomplicated Grade 1 Hypertension**

Xianhui Qin, Youbao Li, Ningling Sun, Mingli He, Genfu Tang, Delu Yin, JiGuang Wang, Min Liang, Binyan Wang, Yong Huo, Xin Xu, Xiping Xu, and Fan Fan Hou

e005247. DOI: 10.1161/JAHA.116.005247.

### **Obesity Increases Risk-Adjusted Morbidity, Mortality, and Cost Following Cardiac Surgery**

Ravi K. Ghanta, Damien J. LaPar, Qianzi Zhang, Vishal Devarkonda, James M. Isbell, Leora T. Yarboro, John A. Kern, Irving L. Kron, Alan M. Speir, Clifford E. Fonner, and Gorav Ailawadi

e003831. DOI: 10.1161/JAHA.116.003831.

### **Risk of Inhospital Stroke or Death Is Associated With Age But Not Sex in Patients Treated With Carotid Endarterectomy for Asymptomatic or Symptomatic Stenosis in Routine Practice: Secondary Data Analysis of the Nationwide German Statutory Quality Assurance Database From 2009 to 2014**

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

e004764. DOI: 10.1161/JAHA.116.004764.

### **Unwarranted Variation in the Quality of Care for Patients With Diseases of the Thoracic Aorta**

Alex Bottle, Giovanni Mariscalco, Matthew A. Shaw, Umberto Benedetto, Athanasios Saratzis, Silvia Mariani, Mohamad Bashir, Paul Aylin, David Jenkins, Aung Y. Oo, Gavin J. Murphy, on behalf of the UK Aortic Forum

e004913. DOI: 10.1161/JAHA.116.004913.

## **Congenital Heart Disease**

### **Physical Activity and Sedentary Behavior in Children With Congenital Heart Disease**

Christine Voss, Stephanie L. Duncombe, Paige H. Dean, Astrid M. de Souza, and Kevin C. Harris

e004665. DOI: 10.1161/JAHA.116.004665.

## **Coronary Heart Disease**

### **Management and Outcome of Patients With Acute Coronary Syndrome Caused by Plaque Rupture Versus Plaque Erosion: An Intravascular Optical Coherence Tomography Study**

Sining Hu, Yinchun Zhu, Yingying Zhang, Jiannan Dai, Lulu Li, Harold Dauerman, Tsunenari Soeda, Zhao Wang, Hang Lee, Chao Wang, Chunyang Zhe, Yan Wang, Gonghui Zheng, Shaosong Zhang, Haibo Jia, Bo Yu, and Ik-Kyung Jang

e004730. DOI: 10.1161/JAHA.116.004730.

### **Early Invasive Strategy and In-Hospital Survival Among Diabetics With Non-ST-Elevation Acute Coronary Syndromes: A Contemporary National Insight**

Ahmed N. Mahmoud, Islam Y. Elgendy, Hend Mansoor, Xuerong Wen, Mohammad K. Mojadidi, Anthony A. Bavry, and R. David Anderson

e005369. DOI: 10.1161/JAHA.116.005369.

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**Angiotensin-Converting Enzyme Inhibitors and Angiotensin II Receptor Blockers Are Associated With Improved Outcome but Do Not Prevent New-Onset Atrial Fibrillation After Acute Myocardial Infarction**

Gorav Batra, Lars Lindhagen, Pontus Andell, David Erlinge, Stefan James, Jonas Spaak, and Jonas Oldgren  
e005165. DOI: 10.1161/JAHA.116.005165.

**Sex Differences in Percutaneous Coronary Intervention—Insights From the Coronary Angiography and PCI Registry of the German Society of Cardiology**

Tobias Heer, Matthias Hochadel, Karin Schmidt, Julinda Mehilli, Ralf Zahn, Karl-Heinz Kuck, Christian Hamm, Michael Böhm, Georg Ertl, Hans Martin Hoffmeister, Stefan Sack, Jochen Senges, Steffen Massberg, Anselm K. Gitt, and Uwe Zeymer  
e004972. DOI: 10.1161/JAHA.116.004972.

**Metabolic Mediators of the Effects of Family History and Genetic Risk Score on Coronary Heart Disease—Findings From the Malmö Diet and Cancer Study**

Josef Fritz, Dov Shiffman, Olle Melander, Hayato Tada, and Hanno Ulmer  
e005254. DOI: 10.1161/JAHA.116.005254.

**Epidemiology**

**Cardiovascular Disease and Patterns of Change in Functional Status Over 15 Years: Findings From the Atherosclerosis Risk in Communities (ARIC) Study**

Anna Kucharska-Newton, Michael Griswold, Zhihao Howard Yao, Randi Foraker, Kathryn Rose, Wayne Rosamond, Lynne Wagenknecht, Silvia Koton, Lisa Pompeii, and B. Gwen Windham  
e004144. DOI: 10.1161/JAHA.116.004144.

**Incident Coronary Heart Disease After Preeclampsia: Role of Reduced Fetal Growth, Preterm Delivery, and Parity**

Hilde Kristin Refvik Riise, Gerhard Sulo, Grethe S. Tell, Jannicke Iglund, Ottar Nygård, Stein Emil Vollset, Ann-Charlotte Iversen, Rigmor Austgulen, and Anne Kjersti Daltveit  
e004158. DOI: 10.1161/JAHA.116.004158.

**Prediction of Cardiovascular Disease by the Framingham-REGICOR Equation in the High-Risk PREDIMED Cohort: Impact of the Mediterranean Diet Across Different Risk Strata**

Antonio J. Amor, Mercè Serra-Mir, Miguel A. Martínez-González, Dolores Corella, Jordi Salas-Salvadó, Montserrat Fitó, Ramón Estruch, Lluís Serra-Majem, Fernando Arós, Nancy Babio, Emilio Ros, Emilio Ortega, for the PREDIMED Investigators  
e004803. DOI: 10.1161/JAHA.116.004803.

**Temporal Trends in Treatment and Outcomes of Acute Myocardial Infarction in Patients With Chronic Obstructive Pulmonary Disease: A Nationwide Population-Based Observational Study**

Tse-Hsuan Su, Shang-Hung Chang, Pei-Chun Chen, and Yi-Ling Chan  
e004525. DOI: 10.1161/JAHA.116.004525.

**Prognostic Impact of In-Hospital and Postdischarge Heart Failure in Patients With Acute Myocardial Infarction: A Nationwide Analysis Using Data From the Cardiovascular Disease in Norway (CVDNOR) Project**

Gerhard Sulo, Jannicke Iglund, Ottar Nygård, Stein Emil Vollset, Marta Ebbing, Neil Poulter, Grace M. Egeland, Charlotte Cerqueira, Torben Jørgensen, and Grethe S. Tell  
e005277. DOI: 10.1161/JAHA.116.005277.

**Performance of the Atherosclerotic Cardiovascular Disease Pooled Cohort Risk Equations by Social Deprivation Status**

Lisandro D. Colantonio, Joshua S. Richman, April P. Carson, Donald M. Lloyd-Jones, George Howard, Luqin Deng, Virginia J. Howard, Monika M. Safford, Paul Muntner, and David C. Goff, Jr  
e005676. DOI: 10.1161/JAHA.117.005676.

**Association of Cardiovascular Health With Subclinical Disease and Incident Events: The Multi-Ethnic Study of Atherosclerosis**

Tamar S. Polonsky, Hongyan Ning, Martha L. Daviglius, Kiang Liu, Gregory L. Burke, Mary Cushman, John Eng, Aaron R. Folsom, Pamela L. Lutsey, Jennifer A. Nettleton, Wendy S. Post, Ralph L. Sacco, Moyses Szklo, and Donald M. Lloyd-Jones  
e004894. DOI: 10.1161/JAHA.116.004894.

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## Health Services and Outcomes Research

### Effect of Race and Ethnicity on Antihypertensive Medication Utilization Among Women in the United States: Study of Women's Health Across the Nation (SWAN)

Elizabeth A. Jackson, Kristine Ruppert, Carol A. Derby, Yinjuan Lian, Genevieve Neal-Perry, Laurel A. Habel, Ping G. Tepper, Siobán D. Harlow, and Daniel H. Solomon  
e004758. DOI: 10.1161/JAHA.116.004758.

### Performance of Emergency Department Screening Criteria for an Early ECG to Identify ST-Segment Elevation Myocardial Infarction

Maame Yaa A. B. Yiadom, Christopher W. Baugh, Conor M. McWade, Xulei Liu, Kyoung Jun Song, Brian W. Patterson, Cathy A. Jenkins, Mary Tanski, Angela M. Mills, Gilberto Salazar, Thomas J. Wang, Robert S. Dittus, Dandan Liu, and Alan B. Storrow  
e003528. DOI: 10.1161/JAHA.116.003528.

### CCR7-CCL19/CCL21 Axis is Essential for Effective Arteriogenesis in a Murine Model of Hindlimb Ischemia

A. Yaël Nossent, Antonius J. N. M. Bastiaansen, Erna A. B. Peters, Margreet R. de Vries, Zeen Aref, Sabine M. J. Welten, Saskia C. A. de Jager, Tineke C. T. M. van der Pouw Kraan, and Paul H. A. Quax  
e005281. DOI: 10.1161/JAHA.116.005281.

### Effect of 2013 ACC/AHA Blood Cholesterol Guidelines on Statin Treatment Patterns and Low-Density Lipoprotein Cholesterol in Atherosclerotic Cardiovascular Disease Patients

Ted Okerson, Jeetvan Patel, Stefan DiMario, Tanya Burton, Jerald Seare, and David J. Harrison  
e004909. DOI: 10.1161/JAHA.116.004909.

### Two Decades of Cardiovascular Trials With Primary Surrogate Endpoints: 1990–2011

Behnood Bikdeli, Natdanai Punnanithinont, Yasir Akram, Ike Lee, Nihar R. Desai, Joseph S. Ross, and Harlan M. Krumholz  
e005285. DOI: 10.1161/JAHA.116.005285.

## Heart Failure

### Improved Diastolic Function Is Associated With Higher Cardiac Output in Patients With Heart Failure Irrespective of Left Ventricular Ejection Fraction

Tomoyuki Tobushi, Masatsugu Nakano, Kazuya Hosokawa, Hidenobu Koga, and Akira Yamada  
e003389. DOI: 10.1161/JAHA.116.003389.

### Bone Mineral Density and Risk of Heart Failure in Older Adults: The Cardiovascular Health Study

Raymond B. Fohtung, David L. Brown, William J. H. Koh, Traci M. Bartz, Laura D. Carbone, Roberto Civitelli, Phyllis K. Stein, Paulo H. M. Chaves, Bryan R. Kestenbaum, and Jorge R. Kizer  
e004344. DOI: 10.1161/JAHA.116.004344.

### Race and Sex Differences in QRS Interval and Associated Outcome Among Patients with Left Ventricular Systolic Dysfunction

Tiffany C. Randolph, Samuel Broderick, Linda K. Shaw, Karen Chiswell, Robert J. Mentz, Valentina Kutiyifa, Eric J. Velazquez, Francis R. Gilliam, and Kevin L. Thomas  
e004381. DOI: 10.1161/JAHA.116.004381.

## Hypertension

### Immunosuppression With Mycophenolate Mofetil Attenuates Hypertension in an Experimental Model of Autoimmune Disease

Erin B. Taylor and Michael J. Ryan  
e005394. DOI: 10.1161/JAHA.116.005394.

### Adipocyte-Specific Enhancement of Angiotensin II Type 1 Receptor-Associated Protein Ameliorates Diet-Induced Visceral Obesity and Insulin Resistance

Kengo Azushima, Kohji Ohki, Hiromichi Wakui, Kazushi Uneda, Sona Haku, Ryu Kobayashi, Kotaro Haruhara, Sho Kinguchi, Miyuki Matsuda, Akinobu Maeda, Yoshiyuki Toya, Akio Yamashita, Satoshi Umemura, and Kouichi Tamura  
e004488. DOI: 10.1161/JAHA.116.004488.

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### **Left Ventricular Hypertrophy Regression During Antihypertensive Treatment in an Outpatient Clinic (the Campania Salute Network)**

Mai Tone Lønnebakken, Raffaele Izzo, Costantino Mancusi, Eva Gerds, Maria Angela Losi, Grazia Canciello, Giuseppe Giugliano, Nicola De Luca, Bruno Trimarco, and Giovanni de Simone  
e004152. DOI: 10.1161/JAHA.116.004152.

### **Prehypertensive Blood Pressures and Regional Cerebral Blood Flow Independently Relate to Cognitive Performance in Midlife**

J. Richard Jennings, Matthew F. Muldoon, Christopher Ryan, H. Michael Gach, Alicia Heim, Lei K. Sheu, and Peter J. Gianaros  
e004856. DOI: 10.1161/JAHA.116.004856.

### **Association of Husband Smoking With Wife's Hypertension Status in Over 5 Million Chinese Females Aged 20 to 49 Years**

Ying Yang, Fangchao Liu, Long Wang, Qian Li, Xingyu Wang, Julia C. Chen, Qiaomei Wang, Haiping Shen, Yiping Zhang, Donghai Yan, Man Zhang, Yuan He, Zuoqi Peng, Yuanyuan Wang, Jihong Xu, Jun Zhao, Ya Zhang, Hongguang Zhang, Xiaona Xin, Yan Wang, Dujia Liu, Tongjun Guo, Qiaoyun Dai, and Xu Ma  
e004924. DOI: 10.1161/JAHA.116.004924.

## **Interventional Cardiology**

### **Transcatheter Heart Valve Selection and Permanent Pacemaker Implantation in Patients With Pre-Existent Right Bundle Branch Block**

Lennart van Gils, Didier Tchetché, Thibault Lhermusier, Masieh Abawi, Nicolas Dumonteil, Ramón Rodríguez Olivares, Javier Molina-Martin de Nicolas, Pieter R. Stella, Didier Carrié, Peter P. De Jaegere, and Nicolas M. Van Mieghem  
e005028. DOI: 10.1161/JAHA.116.005028.

## **Kidney in Cardiovascular Disease**

### **Time in Therapeutic Range and Outcomes After Warfarin Initiation in Newly Diagnosed Atrial Fibrillation Patients With Renal Dysfunction**

Karolina Szummer, Alessandro Gasparini, Staffan Eliasson, Johan Ärnlöv, Abdul Rashid Qureshi, Peter Bárány, Marie Evans, Leif Friberg, and Juan Jesus Carrero  
e004925. DOI: 10.1161/JAHA.116.004925.

## **Molecular Cardiology**

### **Divergent Effects of miR-181 Family Members on Myocardial Function Through Protective Cytosolic and Detrimental Mitochondrial microRNA Targets**

Samarjit Das, Mark Kohr, Brittany Dunkerly-Eyring, Dong I. Lee, Djahida Bedja, Oliver A. Kent, Anthony K. L. Leung, Jorge Henao-Mejia, Richard A. Flavell, and Charles Steenbergen  
e004694. DOI: 10.1161/JAHA.116.004694.

### **Ketone Body Infusion With 3-Hydroxybutyrate Reduces Myocardial Glucose Uptake and Increases Blood Flow in Humans: A Positron Emission Tomography Study**

Lars C. Gormsen, Mads Svart, Henrik Holm Thomsen, Esben Søndergaard, Mikkel H. Vendelbo, Nana Christensen, Lars Poulsen Tolbod, Hendrik Johannes Harms, Roni Nielsen, Henrik Wiggers, Niels Jessen, Jakob Hansen, Hans Erik Bøtker, and Niels Møller  
e005066. DOI: 10.1161/JAHA.116.005066.

### **Mff-Dependent Mitochondrial Fission Contributes to the Pathogenesis of Cardiac Microvasculature Ischemia/Reperfusion Injury via Induction of mROS-Mediated Cardiolipin Oxidation and HK2/VDAC1 Disassociation-Involved mPTP Opening**

Hao Zhou, Shunying Hu, Qinhua Jin, Chen Shi, Ying Zhang, Pingjun Zhu, Qiang Ma, Feng Tian, and Yundai Chen  
e005328. DOI: 10.1161/JAHA.116.005328.

### **Insulin-Like Growth Factor Binding Protein 4 Fragments Provide Incremental Prognostic Information on Cardiovascular Events in Patients With ST-Segment Elevation Myocardial Infarction**

Rikke Hjortebjerg, Søren Lindberg, Sune Pedersen, Rasmus Mogelvang, Jan S. Jensen, Claus Oxvig, Jan Frystyk, and Mette Bjerre  
e005358. DOI: 10.1161/JAHA.116.005358.

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## Resuscitation Science

### Lay Bystanders' Perspectives on What Facilitates Cardiopulmonary Resuscitation and Use of Automated External Defibrillators in Real Cardiac Arrests

Carolina Malta Hansen, Simone Mørk Rosenkranz, Fredrik Folke, Line Zinckernagel, Tine Tjørnhøj-Thomsen, Christian Torp-Pedersen, Kathrine B. Sondergaard, Graham Nichol, and Morten Hulvej Rod  
e004572. DOI: 10.1161/JAHA.116.004572.

### Cardiopulmonary Resuscitation Training in Schools Following 8 Years of Mandating Legislation in Denmark: A Nationwide Survey

Carolina Malta Hansen, Line Zinckernagel, Annette Kjær Ersbøll, Tine Tjørnhøj-Thomsen, Mads Wissenberg, Freddy Knudsen Lippert, Peter Weeke, Gunnar Hilmar Gislason, Lars Køber, Christian Torp-Pedersen, and Fredrik Folke  
e004128. DOI: 10.1161/JAHA.116.004128.

## Stroke

### China Stroke Primary Prevention Trial: Visit-to-Visit Systolic Blood Pressure Variability Is an Independent Predictor of Primary Stroke in Hypertensive Patients

Xi Men, Wei Sun, Fangfang Fan, Min Zhao, Xiao Huang, Yu Wang, Lishun Liu, Ran Liu, Weiping Sun, Qing Peng, Xianhui Qin, Genfu Tang, Jianping Li, Yan Zhang, Yefeng Cai, Fan Fan Hou, Binyan Wang, Xiping Xu, Xiaoshu Cheng, Ningling Sun, Yining Huang, and Yong Huo  
e004350. DOI: 10.1161/JAHA.116.004350.

## Valvular Heart Disease

### Echocardiographic Screening for Rheumatic Heart Disease in Indigenous Australian Children: A Cost-Utility Analysis

Kathryn Roberts, Jeffrey Cannon, David Atkinson, Alex Brown, Graeme Maguire, Bo Remenyi, Gavin Wheaton, Elizabeth Geelhoed, and Jonathan R. Carapetis  
e004515. DOI: 10.1161/JAHA.116.004515.

### Rheumatic Heart Disease Severity, Progression and Outcomes: A Multi-State Model

Jeffrey Cannon, Kathryn Roberts, Catherine Milne, and Jonathan R. Carapetis  
e003498. DOI: 10.1161/JAHA.116.003498.

### Robust Generation of Quiescent Porcine Valvular Interstitial Cell Cultures

Ana M. Porras, Nicole C. A. van Engeland, Evelyn Marchbanks, Ann McCormack, Carlijn V. C. Bouten, Magdi H. Yacoub, Najma Latif, and Kristyn S. Masters  
e005041. DOI: 10.1161/JAHA.116.005041.

## Vascular Medicine

### Rac1 Pharmacological Inhibition Rescues Human Endothelial Dysfunction

Albino Carrizzo, Carmine Vecchione, Antonio Damato, Flavio di Nonno, Mariateresa Ambrosio, Franco Pompeo, Enrico Cappello, Luca Capocci, Mariangela Peruzzi, Valentina Valenti, Giuseppe Biondi-Zoccai, Antonino G. M. Marullo, Silvia Palmerio, Roberto Carnevale, Chiara C. Spinelli, Annibale A. Puca, Speranza Rubattu, Massimo Volpe, Junichi Sadoshima, Giacomo Frati, and Sebastiano Sciarretta  
e004746. DOI: 10.1161/JAHA.116.004746.

### Activation of CD137 Signaling Promotes Angiogenesis in Atherosclerosis via Modulating Endothelial Smad1/5-NFATc1 Pathway

Jiayi Weng, Cuiping Wang, Wei Zhong, Bo Li, Zhongqun Wang, Chen Shao, Yao Chen, and Jinchuan Yan  
e004756. DOI: 10.1161/JAHA.116.004756.

### Interleukin 6 Inhibition and Coronary Artery Disease in a High-Risk Population: A Prospective Community-Based Clinical Study

Bruno Cesar Bacchiega, Ana Beatriz Bacchiega, Magali Justina Gomez Usnayo, Ricardo Bedirian, Gurkirpal Singh, and Geraldo da Rocha Castelar Pinheiro  
e005038. DOI: 10.1161/JAHA.116.005038.

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## Systematic Review and Meta-Analysis

### Deferred Versus Immediate Stenting in Patients With ST-Segment Elevation Myocardial Infarction: A Systematic Review and Meta-Analysis

Jianzhong Qiao, Lingxin Pan, Bin Zhang, Jie Wang, Yongyan Zhao, Ru Yang, Huiling Du, Jie Jiang, Conghai Jin, and Enlai Xiong  
e004838. DOI: 10.1161/JAHA.116.004838.

### Relations of Metabolically Healthy and Unhealthy Obesity to Digital Vascular Function in Three Community-Based Cohorts: A Meta-Analysis

Luisa C. C. Brant, Na Wang, Francisco M. Ojeda, Michael LaValley, Sandhi M. Barreto, Emelia J. Benjamin, Gary F. Mitchell, Ramachandran S. Vasan, Joseph N. Palmisano, Thomas Münzel, Stefan Blankenberg, Philipp S. Wild, Tanja Zeller, Antonio L. P. Ribeiro, Renate B. Schnabel, and Naomi M. Hamburg  
e004199. DOI: 10.1161/JAHA.116.004199.

### What Is the Evidence That the Tissue Doppler Index E/e' Reflects Left Ventricular Filling Pressure Changes After Exercise or Pharmacological Intervention for Evaluating Diastolic Function? A Systematic Review

Oleg F. Sharifov and Himanshu Gupta  
e004766. DOI: 10.1161/JAHA.116.004766.

### Statin Use and the Risk of Cataracts: A Systematic Review and Meta-Analysis

Shandong Yu, Yanpeng Chu, Gang Li, Lu Ren, Qing Zhang, and Lin Wu  
e004180. DOI: 10.1161/JAHA.116.004180.

## Contemporary Reviews

### Implantable Cardioverter-Defibrillators for Secondary Prevention of Sudden Cardiac Death: A Review

Ryan T. Borne, David Katz, Jarrod Betz, Pamela N. Peterson, and Frederick A. Masoudi  
e005515. DOI: 10.1161/JAHA.117.005515.

### Gastrointestinal–Renal Axis: Role in the Regulation of Blood Pressure

Jian Yang, Pedro A. Jose, and Chunyu Zeng  
e005536. DOI: 10.1161/JAHA.117.005536.

### Coronary Atherosclerotic Vulnerable Plaque: Current Perspectives

Christodoulos Stefanadis, Christos-Konstantinos Antoniou, Dimitrios Tsiachris, and Panagiota Pietri  
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