Clinical Summaries ................................................................. 597

Editorials

Primordial Prevention of Cardiovascular Disease
Matthew W. Gillman, MD, SM .................................................. 599

Parsing the Role of NADPH Oxidase Enzymes and Reactive Oxygen Species in Heart Failure
Ajay M. Shah, MD, FMedSci .................................................... 602

Original Articles

Epidemiology and Prevention

Metabolic Syndrome From Adolescence to Early Adulthood: Effect of Infancy-Onset Dietary Counseling of Low Saturated Fat: The Special Turku Coronary Risk Factor Intervention Project (STRIP)
Mari Nupponen, BM; Katja Pahkala, PhD; Markus Juonala, MD, PhD; Costan G. Magnusson, PhD; Harri Niinikoski, MD, PhD; Tapani Rönemaa, MD, PhD; Jorma S.A. Viikari, MD, PhD; Maiju Saarinen, MSc; Hanna Laugström, PhD; Antti Jula, MD, PhD; Olli Simell, MD, PhD; Olli T. Raitakari, MD, PhD ........................................ 605

Health Services and Outcomes Research

Sex Differences in Perceived Stress and Early Recovery in Young and Middle-Aged Patients With Acute Myocardial Infarction
Xiao Xu, PhD; Haikun Bao, PhD; Kelly Strait, MS; John A. Spertus, MD, MPH; Judith H. Lichtman, PhD, MPH; Gail D’Onofrio, MD, MS; Erica Spatz, MD, MHS; Emily M. Bucholz, MPH; Mary Geda, BSN, MSN, RN; Nancy P. Lorenze, DNSc, MSN; Héctor Bueno, MD, PhD; John F. Beltrame, MBBS, PhD; Harlan M. Krumholz, MD, SM ........................................ 614

Heart Failure

Cardiac Sarcoidosis: Epidemiology, Characteristics, and Outcome Over 25 Years in a Nationwide Study
Riina Kandolin, MD; Jukka Lehtonen, MD; Juhani Airaksinen, MD; Tapani Vihtinen, MD; Heikki Miettinen, MD; Kari Ylitalo, MD; Kari Kaikkonen, MD; Suvi Tuohinen, MD; Petri Haataja, MD; Tuomas Kerola, MD; Jorma Kokkonen, MD; Markus Pekkola, MD; Päivi Pietilä-Elfati, MD; Seppo Utianen, MD; Markku Kapari, MD [CME] ........................................ 624

Hypertension

Evidence That Links Loss of Cyclooxygenase-2 With Increased Asymmetric Dimethylarginine: Novel Explanation of Cardiovascular Side Effects Associated With Anti-Inflammatory Drugs
Blerina Ahmetaj-Shala, PhD; Nicholas S. Kirkby, PhD; Rebecca Knowles, MD; Malak Al’Yamani, MSc; Sarah Mazu, MRes; Zhen Wang, PhD; Arthur T. Tucker, PhD; Louise Mackenzie, PhD; Paul C. J. Armstrong, PhD; Rolf M. Nising, PhD; James A. P. Tomlinson, MD, PhD; Timothy D. Warner, PhD; James Leiper, PhD; Jane A. Mitchell, PhD ........................................ 633
Molecular Cardiology

NADPH Oxidase 4 Induces Cardiac Fibrosis and Hypertrophy Through Activating Akt/mTOR and NFκB Signaling Pathways
Qingwei David Zhao, MD, PhD; Suryavathi Viswanadhapalli, PhD; Paul Williams, BS; Qian Shi, PhD; Chunyan Tan, MD; Xiaolan Yi, MD, PhD; Basant Bhandari, PhD; Hanna E. Abboud, MD

Vascular Medicine

Dual-Specificity Phosphatase 3 Deficiency or Inhibition Limits Platelet Activation and Arterial Thrombosis
Lucia Musumeci, PhD; Marijke J. Kuijpers, PhD; Karen Gilio, MD, PhD; Alexandre Hego, BSc; Emile Théâtre, PhD; Lisbeth Maurissen, PhD; Maud Vandereyken, MSc; Catia V. Diogo, PhD; Christelle Lecut, PhD; William Guilmain, PhD; Ekaterina V. Bobkova, PhD; Johannes A. Eble, PhD; Russell Dahl, PhD; Pierre Drion, DVM, PhD; Justin Rascon, PhD; Yolanda Senis, PhD; Michel Mouret, MD; Tomas Mustelin, MD, PhD; Patrizio Lancellotti, MD, PhD; Johan W.M. Heemskerk, MD, PhD; Lutz Tautz, PhD; Cécile Oury, PhD; Souad Rahmouni, PhD

Special Report

How Low Should We Go?: Hypothermia or Strict Normothermia After Cardiac Arrest?
Kees H. Polderman, MD, PhD; Joseph Paron, MD, FACP, FCCP, FCCM, FRSM

Clinician Update

Extracorporeal Membrane Oxygenation in Adults With Cardiogenic Shock
Patrick R. Lawler, MD; David A. Silver, MD; Benjamin M. Scirica, MD, MPH; Gregory S. Couper, MD; Gerald L. Weinhouse, MD; Phillip C. Camp Jr, MD

ECG Challenge

ECG Challenge: February 17, 2015

Images in Cardiovascular Medicine

Structural Valve Deterioration 4 Years After Transcatheter Aortic Valve Replacement: Imaging and Pathohistological Findings
Marcus-André Deutsch, MD; N. Patrick Mayr, MD; Gerald Assmann, MD; Albrecht Will, MD; Markus Krane, MD; Nicolo Piazza, MD, PhD; Sabine Bleiziffer, MD; Ruediger Lange, MD, PhD

Intravascular Ultrasound Observation of an Obstruction of the Left Main Coronary Artery Caused by Displaced Leaflet Calcification and Hematoma After Transcatheter Aortic Valve Implantation
Tomohiko Taniguchi, MD; Naritatsu Saito, MD; Kenji Minakata, MD; Masao Imai, MD; Hirotsugu Watanabe, MD; Toshiaki Toyoda, MD; Shin Watanabe, MD; Junichi Tazaki, MD; Shigeki Koizumi, MD; Shingo Hirao, MD; Kazuhiro Yamazaki, MD; Hiroki Taijo, MD; Ryu佐 Sakata, MD; Takeshi Kimura, MD

Correspondence

Letter by Reed et al Regarding Article, “Proteomic Analysis Implicates Translationally Controlled Tumor Protein as a Novel Mediator of Occlusive Vascular Remodeling in Pulmonary Arterial Hypertension”
Daniel M. Reed, BSc, MRes, PhD; Peter M. George, MBBS, BSc, PhD; Jane A. Mitchell, BSc, PhD

Letter by Monfredi et al Regarding Article, “Physical Activity and Heart Rate Variability in Older Adults: The Cardiovascular Health Study”
Oliver Monfredi, MD, PhD; Henggui Zhang, PhD; Mark R. Boyett, PhD