FRAME OF REFERENCE

On My Mind
Health Services Research in Improving the Delivery of Care for Patients with Cardiovascular Diseases: Moving From Observation to Innovation to Action
Thomas M. Maddox, MD, MSc; P. Michael Ho, MD, PhD

Clinical Implications of Basic Research
Next-Generation Sequencing in Cardiovascular Disease: Present Clinical Applications and the Horizon of Precision Medicine
Victoria N. Parikh, MD; Euan A. Ashley, FRCp, DPhil

ORIGINAL RESEARCH ARTICLES

Twenty-Year Outcome After Mitral Repair Versus Replacement for Severe Degenerative Mitral Regurgitation: Analysis of a Large, Prospective, Multicenter, International Registry
Siham Lazam, MS; Jean-Louis Vanoverschelde, MD, PhD; Christophe Tribouilloy, MD, PhD; Francesco Grigioni, MD, PhD; Rakesh M. Suri, MD, PhD; Jean-Francois Avilinov, MD; Christophe de Meester, PhD; Andrea Barbieri, MD; Dan Rusinaru, MD; Antonio Russo, MD; Agnès Pasquet, MD, PhD; Hector I. Michielsen, MD; Marianne Huebner, PhD; Joseph Maalouf, MD; Antoine Russo, MD; Agnès Pasquet, MD, PhD; Catherine Szymanski, MD, PhD; Maurice Enriquez-Sarano, MD; On behalf of the MIDA (Mitral Regurgitation International Database) Investigators

Editorial
Valve Repair: A Durable Surgical Option in Degenerative Mitral Regurgitation
Bernard D. Prendergast, DM; Michele De Bonis, MD

Contemporary Assessment of Left Ventricular Diastolic Function in Older Adults: The Atherosclerosis Risk in Communities Study
Amil M. Shah, MD, MPH; Brian Claggett, PhD; Dalane Kitzman, MD; Tor Biering-Sørensen, MD, PhD; Jan Skov Jensen, MD, PhD, DMSc; Susan Cheng; Kunihito Matsuishi, MD, PhD; Surna Konety, MD; Aaron R. Folsom, MD, MPH; Thomas H. Mosley, PhD; Jacqueline D. Wright, DPhD; Gerardo Heiss, MD, PhD; Scott D. Solomon, MD

Impact of Computed Tomography Perfusion Imaging on the Response to Tenecteplase in Ischemic Stroke: Analysis of 2 Randomized Controlled Trials
Andrew Bivard, PhD; Xuya Huang; Patrick McElhubu, PhD; Christopher R. Levi; Bruce C.V. Campbell; Bharath Kumar Cheripell; Dheeraj Kalladka; Fiona Catherine Moreton; Ian Ford, PhD; Christopher F. Bladin; Stephen M. Davis; Geoffrey A. Donnan; Keith W. Muir, MD; Mark W. Parsons

Discovery and Validation of Agonistic Angiotensin Receptor Autoantibodies as Biomarkers of Adverse Outcomes
Peter M. Abadir, MD; Alka Jain, PhD; Laura J. Powell, BS; Gian-Li Xue, PhD; Jing Tian, MS; Robert G. Hamilton, PhD, DABMLI; David A. Bennett, MD; Thomas Finucane, MD; Jeremy D. Walston, MD; Neal S. Fedarko, PhD

Plasma Metabolomics Implicates Modified Transfer RNAs and Altered Bioenergetics in the Outcomes of Pulmonary Arterial Hypertension
Christopher J. Rhodes, PhD; Pavandeep Ghatooar, BM, BCh; John Wharton, PhD; Kevin C. Rue-Albrecht, PhD; Charaka Hadinnapola, BM, BCh; Geoffrey Watson, BM, BCh; Marta Bleda, PhD; Matthias Haimel, BSc; Gerry Coghlan, MD; Paul A. Corris, MD; Luke S. Howard, DPhIL; David G. Kiely, MD; Andrew J. Peacock, MD; Joanna Pepke-Zaba, PhD; Mark R. Toehner, MD; S. John Wort, PhD; J. Simon R. Gibbs, MD; Allan Lawrie, PhD; Stefan Graf, PhD; Nicholas W. Morrell, MD; Martin J. Wilkins, MD

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STATE OF THE ART

In Depth
The Role of Efferocytosis in Atherosclerosis
Yoko Kojima, MD, PhD; Irving L. Weissman, MD; Nicholas J. Leeper, MD

CASES AND TRACES

ECG Challenge
Abnormal ECG, Seizures, and Associated Neurological Deficits
James A. Reiffel, MD