Original Articles

Atrial Structure and Function
Age, Sex, and Blood Pressure-Related Influences on Reference Values of Left Atrial Deformation and Mechanics From a Large-Scale Asian Population
Jo-Nan Liao, MD; Tze-Fan Chao, MD; Jen-Yuan Kuo, MD; Kuo-Tzu Sung, MD; Jui-Peng Tsai, MD; Chi-In Lo, MD; Yau-Huei Lai, MD; Cheng-Huang Su, MD, PhD; Chung-Lieh Hung, MD; Hung-I Yeh, MD, PhD; Shih-Ann Chen, MD

Editorial Left Atrial Strain: A Must or a Plus for Routine Clinical Practice?
Erwan Donal, MD, PhD; Elena Galli, MD, PhD; Frederic Schnell, MD, PhD

Coronary Artery Disease
Coronary Artery Calcium Distribution Is an Independent Predictor of Incident Major Coronary Heart Disease Events: Results From the Framingham Heart Study
Maros Ferencik, MD, PhD; Karol M. Pencina, PhD; Ting Liu, MD, KHristine Ghemigian, BA, MHS; Kristin Baltrusaitis, MA; Joseph M. Massaro, PhD; Ralph B. D’Agostino, Sr, PhD; Christopher J. O’Donnell, MD, MPH; Udo Hoffmann, MD, MPH

Editorial Not Every Coronary Artery Calcium Is the Same: Implications of Novel Measurements for Clinical Practice?
Marcio Sommer Bittencourt, MD, MPH, PhD; Khurram Nasir, MD, MPH

Intravascular Imaging
Multimodality Intracoronary Imaging With Near-Infrared Spectroscopy and Intravascular Ultrasound in Asymptomatic Individuals With High Calcium Scores
Ryan D. Madder, MD; Stacie VanOosterhout, MED; David Klun, PA; Abbey Mulder, BSN, RN; Matthew Elmore, MA; Jeffrey M. Decker, MD; David Langholz, MD; Thomas F. Boyden, MD; Jessica Parker, MD; James E. Muller, MD

Editorial High-Risk Coronary Atherosclerosis: Is It the Plaque Burden, the Calcium, the Lipid, or Something Else?
Akiko Maehara, MD; Gregg W. Stone, MD

Peripheral Arterial Disease
Presence, Characteristics, and Prognostic Associations of Carotid Plaque Among People Living With HIV
Sumbal A. Janjua, MD; Pedro V. Staziaki, MD; Balint Szilveszter, MD; Richard A. P. Taks, MD, MSc, PhD; Thomas Mayrhofer, PhD; Orla Hennessy, MD; Hamed A. Emami, MD; Jakob Park, MD; Alexander Ivanov, BS; Travis R. Hallett, BA; Michael T. Lu, MD; Javier M. Romero, MD; Steven K. Grinspoon, MD; Udo Hoffmann, MD, MPH; Markella V. Zanni, MD; Thomas G. Neiian, MD, MPH

Editorial Imaging to End Points: Cardiovascular Disease Risk Assessment in HIV
Ahmed M. Gharib, MD; Colleen Hadigan, MD, MPH
Valvular Heart Disease

Risk Stratification of Severe Aortic Stenosis With Preserved Left Ventricular Ejection Fraction
Using Peak Aortic Jet Velocity: An Outcome Study
Yohann Bohbot, MD; Dan Rusanaru, MD, PhD; Quentin Delpierre, MD; Sylvestre Marechaux, MD, PhD;
Christophe Tribouilloy, MD, PhD

- Editorial Assessment of the Patient With Severe Aortic Stenosis: Getting Closer to the Truth
  Patricia A. Pelliøka, MD

Preload Stress Echocardiography Predicts Outcomes in Patients With Preserved Ejection Fraction and Low-Gradient Aortic Stenosis
Kenya Kasunose, MD, PhD; Hirotsugu Yamada, MD, PhD; Susumu Nishio, MS; Yuta Torii, MS;
Yukina Hirata, PhD; Hiromitsu Seno, MD; Yoshihito Saijo, MD; Takayuki Ise, MD, PhD;
Koji Yamaguchi, MD, PhD; Shusuke Yagi, MD, PhD; Takeshi Soeki, MD, PhD;
Tetsuzo Wakatsuki, MD, PhD; Masataka Sata, MD, PhD

- Editorial Preload Stress Echocardiography: A New Tool to Confirm Severity of Low-Gradient Aortic Stenosis
  Philippe Pibarot, DVM, PhD; Marie-Annick Clavel, DVM, PhD

Ventricular Structure and Function

Metoprolol Reduces Hemodynamic and Metabolic Overload in Asymptomatic Aortic Valve Stenosis
Patients: A Randomized Trial
Nils Henrik Hansson, MD, PhD; Jens Sørensen, MD, DMSc; Hendrik Johannes Harms, PhD;
Won Yong Kim, MD, DMSc; Roni Nielsen, MD, PhD; Lars Poulsen Tolbod, PhD; Jørgen Frøykær, MD, DMSc;
Kirsten Bouclelouche, MD, DMSc; Karen Kaae Dodt, MD, PhD; Inger Sihm, MD, PhD;
Steen Hvitfeldt Poulsen, MD, DMSc; Henrik Wiggers, MD, DMSc

- Editorial Targeting High Oxygen Consumption to Prevent Cardiac Dysfunction in Patients With Aortic Valve Stenosis
  Jolanda van der Velden, PhD

Advances in Cardiovascular Imaging

Machine Learning Approaches in Cardiovascular Imaging
Mir Henglin, BA; Gillian Stein, BA; Pavel V. Hushcha, MD; Jasper Snoek, PhD; Alexander B. Wiltschko, PhD;
Susan Cheng, MD, MMSc, MPH

Cardiovascular Images

Catheterized Fiber-Optics Confocal Microscopy of the Beating Heart In Situ
Chao Huang, PhD; Stephen Wasmund, PhD; Robert Hitchcock, PhD; Nassir F. Marrouche, MD;
Frank B. Sachse, PhD

Correspondence

Letter by Chung and Kim Regarding Article, “Head-to-Head Comparison of Inflammation and Neovascularization in Human Carotid Plaques: Implications for the Imaging of Vulnerable Plaques”
Hyemoon Chung, MD; Weon Kim, MD, PhD

Response by Demeure et al to Letter Regarding Article, “Head-to-Head Comparison of Inflammation and Neovascularization in Human Carotid Plaques: Implications for the Imaging of Vulnerable Plaques”
Fabian Demeure, MD; Caroline Bouzin, PhD; Véronique Roelants, MD, PhD; Anne Bol, PhD;
Robert Verhelst, MD, PhD; Parla Astarci, MD, PhD; Bernhard L. Gerber, MD, PhD;
Anne-Catherine Pouleur, MD, PhD; Agnès Pasquet, MD, PhD; Christophe de Meester, PhD;
Jean-Louis J. Vanoverschelde, MD, PhD; David Vancraeynest, MD, PhD