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FRAME OF REFERENCE

Perspective

Inflammation and Atherosclerosis: The End of a Controversy

Göran K. Hansson, MD, PhD

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ORIGINAL RESEARCH ARTICLES

Low-Density Lipoprotein Cholesterol Lowering for the Primary Prevention of Cardiovascular Disease Among Men With Primary Elevations of Low-Density Lipoprotein Cholesterol Levels of 190 mg/dL or Above: Analyses From the WOSCOPS (West of Scotland Coronary Prevention Study) 5-Year Randomized Trial and 20-Year Observational Follow-Up

Antonio J. Vallejo-Vaz, MD, PhD; Michele Robertson, BSc; Alberico L. Catapano, PhD; Gerald F. Watts, DSc, MD, PhD; John J. Kastelein, MD, PhD; Chris J. Packard, DSc; Ian Ford, PhD; Kausik K. Ray, MD, MPhil

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Editorial

Closing the Remaining Evidence Gap: Randomized Controlled Trial Data to Support Statin Therapy for Low-Density Lipoprotein ≥ 190 mg/dL

Karol E. Watson, MD, PhD; Gregg C. Fonarow, MD

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Timing of Angiography and Outcomes in High-Risk Patients With Non-ST-Segment-Elevation Myocardial Infarction Managed Invasively: Insights From the TAO Trial (Treatment of Acute Coronary Syndrome With Otamixaban)

Pierre Deharo, MD; Gregory Ducrocq, MD, PhD; Christoph Bode, MD; Marc Cohen, MD; Thomas Cuisset, MD, PhD; Shamir R. Mehta, MD; Charles Pollack, Jr, MA, MD; Stephen D. Wiviott, MD; Yedid Elbez, MS; Marc S. Sabatine, MD, MPH; Philippe Gabriel Steg, MD

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Acute Myocardial Infarction: Changes in Patient Characteristics, Management, and 6-Month Outcomes Over a Period of 20 Years in the FAST-MI Program (French Registry of Acute ST-Elevation or Non-ST-Elevation Myocardial Infarction) 1995 to 2015

Etienne Puymirat, MD, PhD; Tabassome Simon, MD, PhD; Guillaume Cayla, MD, PhD; Yves Cottin, MD, PhD; Meyer Elbaz, MD, PhD; Pierre Coste, MD, PhD; Gilles Lemesle, MD, PhD; Pascal Motreff, MD, PhD; Batric Popovic, MD, PhD; Khalife Khalife, MD; Jean-Noel Labèque, MD; Thibaut Perret, MD; Christophe Le Ray, MD; Laurent Orion, MD; Bernard Jouve, MD; Didier Blanchard, MD; Patrick Peycher; Johanne Silvain, MD, PhD; Philippe Gabriel Steg, MD; Patrick Goldstein, MD; Pascal Guéret, MD, PhD; Loïc Belle, MD; Nadia Aïssaoui, MD, PhD; Jean Ferrières, MD, PhD; François Schiele, MD, PhD; Nicolas Danchin, MD, PhD; for the USIK, USIC 2000, and FAST-MI investigators

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Upregulation of Human Endogenous Retrovirus-K Is Linked to Immunity and Inflammation in Pulmonary Arterial Hypertension

Toshie Saito, MD; Kazuya Miyagawa, MD, PhD; Shih-Yu Chen, MD, PhD; Rasa Tamosiuniene, MD, PhD; Lingli Wang, MD; Orr Sharpe, MSc; Erik Samayoa, BS, CLS; Daisuke Harada, PhD; Jan-Renier A.J. Moonen, MD, PhD; Aiqin Cao, PhD; Pin-I Chen, PhD; Jan K. Hennigs, MD; Mingxia Gu, MD, PhD; Caiyun G. Li, PhD; Ryan D. Leib, PhD; Dan Li, PhD; Christopher M. Adams, PhD; Patricia A. del Rosario, BSN, RN, PHN; Matthew Bill, BS; Francois Haddad, MD; Jose G. Montoya, MD; William H. Robinson, MD, PhD; Wendy J. Fantl, PhD; Garry P. Nolan, PhD; Roham T. Zamanian, MD; Mark R. Nicolls, MD; Charles Y. Chiu, MD, PhD; Maria E. Ariza, PhD; Marlene Rabinovitch, MD

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On the Cover: *Circulation* Doodle

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ORIGINAL RESEARCH ARTICLES

Editorial

- Human Endogenous Retrovirus K and Pulmonary Arterial Hypertension: A New Take on a Retro Idea** 1936

Miranda K. Culley, BA; Stephen Y. Chan, MD, PhD

- Enhanced Therapeutic and Long-Term Dynamic Vascularization Effects of Human Pluripotent Stem Cell–Derived Endothelial Cells Encapsulated in a Nanomatrix Gel** 1939

Shin-Jeong Lee, PhD; Young-Doug Sohn, PhD; Adinarayana Andukuri, PhD; Sangsung Kim, MS; Jaemin Byun, MS; Ji Woong Han, PhD; In-Hyun Park, PhD; Ho-Wook Jun, PhD; Young-sup Yoon, MD, PhD

STATE OF THE ART

White Paper

- International Expert Consensus on Switching Platelet P2Y₁₂ Receptor–Inhibiting Therapies** 1955

Dominick J. Angiolillo, MD, PhD; Fabiana Rollini, MD; Robert F. Storey, MD; Deepak L. Bhatt, MD, MPH; Stefan James, MD, PhD; David J. Schneider, MD; Dirk Sibbing, MD; Derek Y.F. So, MD; Dietmar Trenk, PhD; Dimitrios Alexopoulos, MD; Paul A. Gurbel, MD; Willibald Hochholzer, MD; Leonardo De Luca, MD; Laurent Bonello, MD; Daniel Aradi, MD, PhD; Thomas Cuisset, MD, PhD; Udaya S. Tantry, PhD; Tracy Y. Wang, MD, MHS, MSc; Marco Valgimigli, MD, PhD; Ron Waksman, MD; Roxana Mehran, MD; Gilles Montalescot, MD; Francesco Franchi, MD; Matthew J. Price, MD

CASES AND TRACES

ECG Challenge

- Unusual ST-Segment Elevation in the Anterolateral Precordial Leads: Ischemia, Brugada Phenocopy, Brugada Syndrome, All, or None?** 1976

Andrés Ricardo Pérez-Riera, MD, PhD; Raimundo Barbosa-Barros, MD; Rodrigo Daminello-Raimundo, PhD; Luiz Carlos de Abreu, PhD; Adrian Baranchuk, MD

CORRESPONDENCE

Research Letter

- Early Outcomes of Repair of Left Ventricular Apical Aneurysms in Patients With Hypertrophic Cardiomyopathy** 1979

Anita Nguyen, MBBS; Hartzell V. Schaff, MD; Rick A. Nishimura, MD; Joseph A. Dearani, MD; Steve R. Ommen, MD

Correspondence

- Letter by Natale et al Regarding Article, “Predicting Cardiovascular Events in Familial Hypercholesterolemia: The SAFEHEART Registry (Spanish Familial Hypercholesterolemia Cohort Study)”** 1982

Francesco Natale, MD, PhD; Marco Di Maio, MD; Paolo Calabrò, MD, PhD

- Response by Pérez de Isla et al to Letter Regarding Article, “Predicting Cardiovascular Events in Familial Hypercholesterolemia: The SAFEHEART Registry (Spanish Familial Hypercholesterolemia Cohort Study)”** 1984

Leopoldo Pérez de Isla, MD, PhD; Adriana Saltijeral Cerezo, MD, PhD; Pedro Mata, MD, PhD

- Letter by Jin-shan and Xue-bin Regarding Article, “Impact of the Clinical Frailty Scale on Outcomes After Transcatheter Aortic Valve Replacement”** 1985

He Jin-shan, MD; Li Xue-bin, MD

- Response by Yamamoto et al to Letter Regarding Article, “Impact of the Clinical Frailty Scale on Outcomes After Transcatheter Aortic Valve Replacement”** 1987

Masanori Yamamoto, MD; Tetsuro Shimura, MD; Kentaro Hayashida, MD



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CLINICAL STATEMENTS AND GUIDELINES

AHA Scientific Statement

Diagnosis and Management of Noncardiac Complications in Adults With Congenital Heart Disease: A Scientific Statement From the American Heart Association e348

George K. Lui, MD, Chair; Arwa Saidi, MB BCh, Vice Chair; Ami B. Bhatt, MD; Luke J. Burchill, MD; Jason F. Deen, MD; Michael G. Earing, MD; Michael Gewitz, MD, FAHA; Jonathan Ginns, MD; Joseph D. Kay, MD; Yuli Y. Kim, MD; Adrienne H. Kovacs, PhD; Eric V. Krieger, MD; Fred M. Wu, MD; Shi-Joon Yoo, MD, PhD; On behalf of the American Heart Association Adult Congenital Heart Disease Committee of the Council on Clinical Cardiology and Council on Cardiovascular Disease in the Young; Council on Cardiovascular Radiology and Intervention; and Council on Quality of Care and Outcomes Research



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