Important Publications

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Guidelines

Reappraisal of European guidelines on hypertension management - a European Society of Hypertension Task Force document
Giuseppe Mancia, Stéphane Laurent, Enrico Agabiti-Rosei, Ettore Ambrosioni, Michel Burnier, Mark J. Caulfield, Renata Cifkova, Denis Clément, Antonio Coca, Anna Dominiczak, Serap Erdine, Robert Fagard, Csaba Farsang, Guido Grassi, Hermann Haller, Anthony Heagerty, SverreE.Kjeldsen, Wolfgang Kiowski, Jean Michel Mallion, Athanasios Manolis, Krzysztof Narkiewicz, Peter Nilsson, Michael H. Olsen, Karl Heinz Rahn, Josep Redon, José Rodicio, Luis Ruilope, Roland E. Schmieder, Harry A.J. Struijker-Boudier, Pieter A. van Zwieten, Margus Viigimaa and Alberto Zanchetti
Journal of Hypertension 2009, 27:2121–2158

2007 Guidelines for the Management of Arterial Hypertension
Giuseppe Mancia et al.
EHJ (2007) 28, 1462-1536

Arterielle Gefäßsteifigkeit und Pulswellenanalyse Positionspapier zu Grundlagen, Methodik, Beeinflussbarkeit und Ergebnisinterpretation
Gast-Herausgeber: Dr. Johannes Baulmann
Deutsche Medizinische Wochenschrift 2010, S1 5 3

Recommendations for measuring arterial stiffness

Clinical Applications of Arterial Stiffness, Task Force III Recommendations for User Procedures
Luc M. Van Bortel, Daniel Duprez, Mirian J. Starmans-Kool, Michel E. Safar, Christina Giannattasio, John Cockcroft, Daniel R. Kaiser, and Christian Thuillez
Am J Hypertens 2002;15:445–452

Expert consensus document on arterial stiffness-methodological issues and clinical applications
Stephane Laurent, John Cockcroft, Luc Van Bortel, Pierre Boutouyrie, Cristina Giannattasio, Daniel Hayoz, Bruno Pannier, Charalambos Vlachopoulos, Ian Wilkinson, and Harry Struijker-Boudier
European Heart Journal (2006) 27, 2588–2605

Abridged version of the expert consensus document on arterial stiffness
Stephane Laurent, John Cockcroft, Luc Van Bortel, Pierre Boutouyrie, Cristina Giannattasio, Daniel Hayoz, Bruno Pannier, Charalambos Vlachopoulos, Ian Wilkinson, Harry Struijker-Boudier
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Arterial Stiffness and the Development of Hypertension - The ARIC Study
Duanping Liao, Donna K. Arnett, Herman A. Tyroler, Ward A. Riley, Lloyd E. Chambless, Moyses Szklo, Gerardo Heiss
Hypertension. 1999;34:201-206.

Mechanisms, Pathophysiology, and Therapy of Arterial Stiffness
Susan J. Zieman, Vojtech Melenovsky, David A. Kass
Arterioscler Thromb Vasc Biol. 2005;25:932-943.

Relation of arterial stiffness to diastolic dysfunction in hypertensive heart disease
P M Mottram, B A Haluska, R Leano, S Carlier, C Case, T H Marwick
Heart 2005;91:1551–1556.

Arterial stiffness: reflections on the arterial pulse
Michael F. O'Rourke and Stanley S. Franklin
European Heart Journal (2006) 27, 2497–2498

Aortic stiffness as a predictor of coronary atherosclerosis
Cristina Giannattasio
Journal of Hypertension 2006, 24:2347–2348

Is arterial stiffness ready for daily clinical practice?
Luc M. Van Bortel
Journal of Hypertension 2006, 24:281–283

Arterial Elasticity in Cardiovascular Disease: Focus on Hypertension, Metabolic Syndrome and Diabetes
Relu Cernes, Reuven Zimlichman, Marina Shargorodsky
Cardiovascular Diabetology: Clinical, Metabolic and Inflammatory Facets. Adv Cardiol.
Basel, Karger

Arterial Stiffness, Cognitive Decline, and Risk of Dementia - The Rotterdam Study
Marielle M.F. Poels; Marieke van Oijen, MD; Francesco U.S. Mattace-Raso, MD, PhD; Albert Hofman, MD, PhD; Peter J. Koudstaal, MD, PhD; Jacqueline C.M. Witteman, PhD; Monique M.B. Breteler, MD, PhD
Stroke. 2007;38:888-892.

Vascular Stiffness: Its Measurement and Significance for Epidemiologic and Outcome Studies
Stephanie S. DeLoach and Raymond R. Townsend
Clin J Am Soc Nephrol 3: 184–192, 2008.

Arterial stiffness, cardiovagal baroreflex sensitivity and postural blood pressure changes in older adults: The Rotterdam Study
Francesco U.S. Mattace-Raso, Anton H. van den Meiracker,Willem Jan Bos, Tischa J.M. van der Cammen, Berend E. Westerhof, Suzette Elias-Smale, Robert S. Reneman, Arnold P.G. Hoeks, Albert Hofmana and Jacqueline C.M. Witteman
Journal of Hypertension 2007, 25:1421–1426

Increased Stroke Volume and Aortic Stiffness Contribute to Isolated Systolic Hypertension in Young Adults
Carmel M. McEniery, Yasmin, Sharon Wallace, Kaisa Maki-Petaja, Barry McDonnell, James E. Sharman, Christopher Retallick, Stanley S. Franklin, Morris J. Brown, R. Catherine Lloyd, John R. Cockcroft, Ian B. Wilkinson; on behalf of the ENIGMA Study Investigators
Hypertension. 2005;46:221-226.

Fibrinogen, genes, and arterial stiffness
Veronique Regnault, Patrick Lacolley. and Michel E. Safar
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Nicole M. van Popele, A. Elizabeth Hak, Francesco U. S. Mattace-Raso, Michiel L. Bots, Deirdre A.M. van der Kuip, Robert S. Reneman, Arnold P. G. Hoeks, Albert Hofman, Diederick E. Grobbee and Jacqueline C. M. Witteman
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Arterial function

Age-Related Reduction of NO Availability and Oxidative Stress in Humans
Stefano Taddei, Agostino Virdis, Lorenzo Ghiadoni, Guido Salvetti, Giampaolo Bernini, Armando Magagna and Antonio Salvetti
Hypertension 2001;38;274-279

The ageing endothelium, cardiovascular risk and disease in man
Daniele Versari, Elena Daghini, Agostino Virdis, Lorenzo Ghiadoni and Stefano Taddei
Exp Physiol 94.3 pp 317–321

Endothelial Dysfunction - A Marker of Atherosclerotic Risk
Piero O. Bonetti, Lilach O. Lerman, Amir Lerman
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Endothelial Dysfunction – The Link Between Inflammation and Atherosclerosis in Rheumatoid Arthritis
Paul Bacon, Leigh Church, Stephen Young
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Endothelium-dependent contractions and endothelial dysfunction in human hypertension
Daniele Versari, Elena Daghini, Agostino Virdis, Lorenzo Ghiadoni and Stefano Taddei
British Journal of Pharmacology (2009) 157, 527–536

Pulse-Wave Analysis - Clinical Evaluation of a Noninvasive, Widely Applicable Method for Assessing Endothelial Function
Ian B. Wilkinson, Ian R. Hall, Helen MacCallum, Isla S. Mackenzie, Carmel M. McEniery, Bart J. van der Arend, Yae-Eun Shu, Laura S. MacKay, David J. Webb, John R. Cockcroft
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Arterial function and inflammation

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Peter Libby, Paul M. Ridker and Attilio Maseri
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Charalambos Vlachopoulos, Ioanna Dima, Konstantinos Aznaouridis, Carmen Vasiliadou, Nikolaos Ioakeimidis, Constadina Aggeli, Marina Toutouza and Christodoulos Stefanadis
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Luigi Giusto Spagnoli, Elena Bonanno, Giuseppe Sangiorgi, and Alessandro Mauriello
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Rodolfo Paoletti, Antonio M. Gotto, Jr and David P. Hajjar
Circulation 2004;109;III-20-III-26

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Seyed Hesameddin Abbasi and Mohammad Ali Boroumand
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Inflammation, Thrombosis and Vascular Biology: Translating Ideas into Cardiovascular Research and Therapy
Armen Yuri Gasparyan
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Inflammation-Induced Atherosclerosis as a Target for Prevention of Cardiovascular Diseases from Early Life
Roya Kelishadi
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Inflammation in Atherosclerosis: From Vascular Biology to Biomarker Discovery and Risk Prediction
René R. S. Packard and Peter Libby
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Raul Altman
Thrombosis Journal 2003, 1

Arterial function evaluation and endothel function

Endothelium-dependent contractions and endothelial dysfunction in human hypertension
Daniele Versari, Elena Daghini, Agostino Virdis, Lorenzo Ghiadoni and Stefano Taddei
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Daniele Versari, Elena Daghini, Agostino Virdis, Lorenzo Ghiadoni and Stefano Taddei
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Arteriosclerosis

Techniques for the Detection of Coronary Atherosclerosis - Multi–detector Row CT Coronary Angiography
Thomas J. Vogl, MD, Nasreddin D. Abolmaali, MD, Thomas Diebold, MD, Kerstin Engelmann, Mehtap Ay, Selami Dogan, MD, Gerhardt Wimmer-Greinecker, MD, Anton Moritz, MD, Christopher Herzog, MD
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Association Between Arterial Stiffness and Atherosclerosis The Rotterdam Study
Nicole M. van Popele, MD, PhD; Diederick E. Grobbee, MD, PhD; Michiel L. Bots, MD, PhD; Roland Asmar, MD, PhD; Jirar Topouchian, MD, PhD; Robert S. Reneman, MD, PhD; Arnold P.G. Hoeks, PhD; Deidre A.M. van der Kuip, MD, PhD; Albert Hofman, MD, PhD; Jacqueline C.M. Witteman, PhD
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Nicole M. van Popele, Francesco U.S. Mattace-Raso, Rozemarijn Vliegenthart, Diederick E. Grobbee, Roland Asmar, Deirdre A.M. van der Kuip, Albert Hofman, Pim J. de Feijter, Matthijs Oudkerk and Jacqueline C.M. Witteman
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The association of arterial stiffness and arterial calcification - the Rotterdam Study
AE Odink, FUS Mattace-Raso, A van der Lugt, A Hofman, MGM Hunink, MMB Breteler, GP Krestin2 and JCM Witteman
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Ian B. Wilkinson, Carmel M. McEniery, John R. Cockcroft
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Vascular Aging-A Tale of EVA and ADAM in Cardiovascular Risk Assessment and Prevention
Peter M. Nilsson, Pierre Boutouyrie and Stéphane Laurent
Hypertension 2009;54;3-10

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Carmel M. McEniery, PHD, Yasmin, PHD, Ian R. Hall, MB, MRCP, Ahmad Qasem, PHD, Ian B. Wilkinson, MA, DM, MRCP, John R. Cockcroft, BSC, MB, FRCP
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Gary F. Mitchell, Helen Parise, Emelia J. Benjamin, Martin G. Larson, Michelle J. Keyes, Joseph A. Vita, Ramachandran S. Vasan, Daniel Levy
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Hae-Young Lee, MD, PhD; Byung-Hee Oh, MD, PhD
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Astrid G. Ruitenbeek, Tischa J.M. van der Cammen, Anton H. van den Meiracker and Francesco U.S. Mattace-Raso
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Karen L. Berry, BSc(Hons), James D. Cameron, MD, MEngSc, Anthony M. Dart, BA, BM, BCh, DPhil, FRCP, Elizabeth M. Dewar, BSc, Christoph D. Gatzka, MD, Garry L. Jennings, MD, FRACP, Yu-Lu Liang, MD, PhD, Chris M. Reid, PhD, and Bronwyn A. Kingwell, PhD
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Prognostic Value of Aortic Pulse Wave Velocity as Index of Arterial Stiffness in the General Population
Tine Willum Hansen; Jan A. Staessen; Christian Torp-Pedersen; Susanne Rasmussen; Lutgarde Thijs; Hans Ibsen; Jørgen Jeppesen
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Aortic Stiffness Is an Independent Predictor of All-Cause and Cardiovascular Mortality in Hypertensive Patients
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Augmentation index, pulse wave reflection

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Differential Impact of Blood Pressure–Lowering Drugs on Central Aortic Pressure and Clinical Outcomes - Principal Results of the CAFE Study
The CAFE Investigators, for the Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT) Investigators; CAFE Steering Committee and Writing Committee; Bryan Williams, MD, FRCP; Peter S. Lacy, PhD; Simon M. Thom, MD, FRCP; Kennedy Cruickshank, MD; Alice Stanton, MB, PhD, FRCPI; David Collier, MBBS, PhD; Alun D. Hughes, MBBS, PhD; H. Thurston, MD, FRCP; Study Advisor Michael O'Rourke, MD, FRACP
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Riccardo Pini, MD, FACC, M. Chiara Cavallini, MD, Vittorio Palmieri, MD, PHD, Niccolò Marchionni, MD, Mauro Di Bari, MD, PHD, Richard B. Devereux, MD, FACC, Giulio Masotti, MD, Mary J. Roman, MD, FACC
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MICHAEL F. O'ROURKE, MD, AND JAMES B. SEWARD, MD
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What to Anticipate From Pulse Pressure Amplification
Theodore G. Papaioannou, PHD, Athanase D. Protogerou, MD, Christodoulos Stefanadis, MD
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Clinical studies

A comparative study of arterial stiffness, flow-mediated vasodilation of the brachial artery, and the thickness of the carotid artery intima–media in patients with systemic autoimmune diseases
Pál Soltész, Henriett Dér, György Kerekes, Péter Szodoray, Gabriella Szücs, Katalin Dankó, Yehuda Shoenfeld, Gyula Szegedi, Zoltán Szekanecz
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Pregnancy

Maternal arterial stiffness in pregnancies affected by preeclampsia
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