



This article contains online supplementary information that is available at <http://www.stroke.ahajournals.org>

Editorials

Is the Stroke Belt Worn From Childhood? Current Knowledge and Future Directions <i>Aiman El-Saed, MD, PhD; Lewis H. Kuller, MD, DrPH</i>	2403
When Race/Ethnicity Matters More Than Size <i>Alexander V. Khaw, MD</i>	2405
Migraine With Aura and Ischemic Stroke: Which Additional Factors Matter? <i>Tobias Kurth, MD, ScD</i>	2407
Predicting Stroke Risk in Patients With Atrial Fibrillation <i>Daniel G. Hackam, MD, PhD, FRCPC</i>	2409
Hemicraniectomy: A Second Chance on Life for Patients With Space-Occupying MCA Infarction <i>Stephan A. Mayer, MD, FCCM</i>	2410
Potential Impact of Sulfonylureas in the Outcome of Type 2 Diabetic Patients With Ischemic Stroke <i>Adrià Arboix, MD, PhD</i>	2413

Original Contributions

Is the 'Stroke Belt' Worn From Childhood? Risk of First Stroke and State of Residence in Childhood and Adulthood <i>M. Maria Glymour, ScD; Mauricio Avendaño, PhD; Lisa F. Berkman, PhD</i>	2415
Visceral Adipose Tissue, a Potential Risk Factor for Carotid Atherosclerosis: Results of the Multicultural Community Health Assessment Trial (M-CHAT) <i>Scott A. Lear, PhD; Karin H. Humphries, DSc; Simi Kohli, BSc; Jiri J. Frohlich, MD; C. Laird Birmingham, MD; G.B. John Mancini, MD</i>	2422
Racial/Ethnic Differences in Longitudinal Risk of Intracranial Hemorrhage in Brain Arteriovenous Malformation Patients <i>Helen Kim, PhD; Stephen Sidney, MD, MPH; Charles E. McCulloch, PhD; K.Y. Trudy Poon, MS; Vineeta Singh, MD; S. Claiborne Johnston, MD, PhD; Nerissa U. Ko, MD; Achal S. Achrol, BS; Michael T. Lawton, MD; Randall T. Higashida, MD; William L. Young, MD; for the UCSF BAVM Study Project</i>	2430
Probable Migraine With Visual Aura and Risk of Ischemic Stroke: The Stroke Prevention in Young Women Study <i>Leah R. MacClellan, PhD; Wayne Giles, MD; John Cole, MD; Marcella Wozniak, MD; Barney Stern, MD; Braxton D. Mitchell, PhD; Steven J. Kittner, MD</i>	2438
Stroke Symptoms in Individuals Reporting No Prior Stroke or Transient Ischemic Attack Are Associated With a Decrease in Indices of Mental and Physical Functioning <i>George Howard, DrPH; Monika M. Safford, MD; James F. Meschia, MD; Claudia S. Moy, PhD; Virginia J. Howard, MSPH; LeaVonne Pulley, PhD; Camilo R. Gomez, MD; Martha Crowther, PhD</i>	2446
Transcranial Doppler Hemodynamic Parameters and Risk of Stroke: The Rotterdam Study <i>Michiel J. Bos, MD, MSc; Peter J. Koudstaal, MD, PhD; Albert Hofman, MD, PhD; Jacqueline C.M. Witteman, PhD; Monique M.B. Breteler, MD, PhD</i>	2453

Can Patients at Elevated Risk of Stroke Treated With Anticoagulants Be Further Risk Stratified? <i>Lawrence Baruch, MD; Brian F. Gage, MD; Jay Horrow, MD; Steen Juul-Möller, MD; Arthur Labovitz, MD; Maria Persson, MS; Miguel Zabalgoitia, MD</i>	2459
Therapeutic Benefit of Low-Dose Clopidogrel in Patients Undergoing Carotid Surgery Is Linked to Variability in the Platelet Adenosine Diphosphate Response and Patients' Weight <i>David A. Payne, FRCS(Ed); Chris I. Jones, MSc; Paul D. Hayes, MD; A. Ross Naylor, MD; Alison H. Goodall, PhD</i>	2464
Mobile Aortic Plaques Are a Cause of Multiple Brain Infarcts Seen on Diffusion-Weighted Imaging <i>Yuji Ueno, MD; Kazumi Kimura, MD; Yasuyuki Iguchi, MD; Kensaku Shibasaki, MD; Takeshi Inoue, MD; Nobutaka Hattori, MD; Takao Urabe, MD</i>	2470
The Role of Immunity and Inflammation in the Progression of Atherosclerosis in Patients With HIV Infection <i>Blai Coll, MD; Sandra Parra, MD; Carlos Alonso-Villaverde, MD; Gerard Aragonés; Manuel Montero, MD; Jordi Camps, PhD; Jorge Joven, MD; Lluís Masana, MD</i>	2477
Can the Ischemic Penumbra Be Identified on Noncontrast CT of Acute Stroke? <i>Keith W. Muir, MD, FRCP; Jonathan Baird-Gunning, BSc; Leighton Walker, FRCR; Tracey Baird, MRCP; Michael McCormick, MRCP; Shelagh B. Coutts, MD, FRCPC</i>	2485
Elevated Serum S100B Levels Indicate a Higher Risk of Hemorrhagic Transformation After Thrombolytic Therapy in Acute Stroke <i>Christian Foerch, MD; Michael T. Wunderlich, MT, MD; Florian Dvorak, MD; Marek Humpich, MD; Timo Kahles, MD; Michael Goertler, MD; Jose Alvarez-Sabín, MD; Claus W. Wallesch, MD; Carlos A. Molina, MD; Helmuth Steinmetz, MD; Matthias Sitzer, MD; Joan Montaner, MD</i>	2491
Extent of Acute Hydrocephalus After Aneurysmal Subarachnoid Hemorrhage as a Risk Factor for Delayed Cerebral Infarction <i>Annelies M. Bakker, MD; Sanne M. Dorhout Mees, MD; Ale Algra, MD; Gabriël J.E. Rinkel, MD</i>	2496
Computation of Hemodynamics in the Circle of Willis <i>Martin Sandve Alnæs, MSc; Jørgen Isaksen, MD; Kent-André Mardal, PhD; Bertil Romner, PhD; Michael K. Morgan, MD; Tor Ingebrigtsen, PhD</i>	2500
Sequential-Design, Multicenter, Randomized, Controlled Trial of Early Decompressive Craniectomy in Malignant Middle Cerebral Artery Infarction (DECIMAL Trial) <i>Katayoun Vahedi, MD; Eric Vicaut, MD, PhD; Joaquim Mateo, MD; Annie Kurtz, MS; Mikael Orabi, MD; Jean-Pierre Guichard, MD; Carole Boutron, BS; Gregory Couvreur, MD; François Rouanet, MD; Emmanuel Touzé, MD; Benoît Guillon, MD; Alexandre Carpentier, MD; Alain Yelnik, MD; Bernard George, MD; Didier Payen, MD, PhD; Marie-Germaine Bousser, MD; on behalf of the DECIMAL Investigators</i>	2506
Decompressive Surgery for the Treatment of Malignant Infarction of the Middle Cerebral Artery (DESTINY): A Randomized, Controlled Trial <i>Eric Jüttler, MD; Stefan Schwab, MD, PhD; Peter Schmiedek, MD, PhD; Andreas Unterberg, MD, PhD; Michael Hennerici, MD, PhD; Johannes Woitzik, MD; Steffen Witte, PhD; Ekkehart Jenetzky, MD; Werner Hacke, MD, PhD; for the DESTINY Study Group</i> CME	2518
Sulfonylureas Improve Outcome in Patients With Type 2 Diabetes and Acute Ischemic Stroke <i>Hagen Kunte, MD; Sein Schmidt, MD; Michael Eliasziw, PhD; Gregory J. del Zoppo, MD; J. Marc Simard, MD, PhD; Florian Masuhr, MD; Markus Weih, MD; Ulrich Dirnagl, MD</i>	2526
Outcome of Stroke With Mild or Rapidly Improving Symptoms <i>Krassen Nedeltchev, MD; Benjamin Schwegler, BSc; Tobias Haefeli, MD; Caspar Brekenfeld, MD; Jan Gralla, MD; Urs Fischer, MD; Marcel Arnold, MD; Luca Remonda, MD; Gerhard Schroth, MD; Heinrich P. Mattle, MD</i>	2531
Does the Prevention of Complications Explain the Survival Benefit of Organized Inpatient (Stroke Unit) Care? Further Analysis of a Systematic Review <i>Lindsay Govan, BSc, Hons; Peter Langhorne, PhD; Christopher J. Weir, PhD; for the Stroke Unit Trialists Collaboration</i>	2536
Sex Differences in Stroke Recovery and Stroke-Specific Quality of Life: Results From a Statewide Stroke Registry <i>Julia Warner Gargano, MS; Mathew J. Reeves, PhD; for the Paul Coverdell National Acute Stroke Registry Michigan Prototype Investigators</i>	2541

Habitual Physical Activity and Vascular Aging in a Young to Middle-Age Population at Low Cardiovascular Risk <i>Michaela Kozakova, MD, PhD; Carlo Palombo, MD; Leila Mhamdi, MSc; Thomas Konrad, MD; Peter Nilsson, MD; Peter Bisgaard Staehr, MD, PhD; Marco Paterni, Eng; Beverley Balkau, PhD; on behalf of the RISC Investigators</i>	2549
Occupational Therapists' Identification, Assessment, and Treatment of Unilateral Spatial Neglect During Stroke Rehabilitation in Canada <i>Anita Menon-Nair, MSc; Nicol Korner-Bitensky, PhD; Tatiana Ogourtsova, BSc</i>	2556
Matrix Metalloproteinase-9 Inhibition Attenuates Vascular Endothelial Growth Factor-Induced Intracerebral Hemorrhage <i>Chanhung Z. Lee, MD, PhD; Zheng Xue, MD; Yiqian Zhu, MD; Guo-Yuan Yang, MD, PhD; William L. Young, MD</i>	2563
Novel Thyroxine Derivatives, Thyronamine and 3-iodothyronamine, Induce Transient Hypothermia and Marked Neuroprotection Against Stroke Injury <i>Kristian P. Doyle, BSc; Katherine L. Suchland, BS; Thomas M.P. Ciesielski, BS; Nikola S. Lessov, MD, PhD; David K. Grandy, PhD; Thomas S. Scanlan, PhD; Mary P. Stenzel-Poore, PhD</i>	2569
Fate of Disseminated Dead Neurons in the Cortical Ischemic Penumbra: Ultrastructure Indicating a Novel Scavenger Mechanism of Microglia and Astrocytes <i>Umeo Ito, MD, PhD, FAHA; Jun Nagasao, DVM; Emiko Kawakami, BS; Kiyomitsu Oyanagi, MD, PhD</i>	2577
Brain Repair by Hematopoietic Growth Factors in a Rat Model of Stroke <i>Li-Ru Zhao, MD, PhD; Seema Singhal, MD; Wei-Ming Duan, MD, PhD; Jayesh Mehta, MD; John A. Kessler, MD</i>	2584

Research Letters

South Asian Patients With Ischemic Stroke: Intracranial Large Arteries Are the Predominant Site of Disease <i>Deidre A. De Silva, MRCP; Fung-Peng Woon, MSc; Moi-Pin Lee, RBT; Christopher P.L.H. Chen, FRCP; Hui-Meng Chang, MBBS, FAMS; Meng-Cheong Wong, MBBS, FRCP</i>	2592
Prevalence of Subcortical Vascular Lesions and Association With Executive Function in Mild Cognitive Impairment Subtypes <i>Stéphanie Bombois, MD; Stéphanie Debette, MD; Xavier Delbeuck, PhD; Amélie Bruandet, MD; Samuel Lepoittevin, PsyP; Christine Delmaire, MD, PhD; Didier Leys, MD, PhD; Florence Pasquier, MD, PhD</i>	2595
Increased Severity of Hemorrhage in Transgenic Mice Expressing Cerebral Protease Nexin-2/Amyloid β-Protein Precursor <i>Feng Xu, MD; Mary Lou Previti, BS; William E. Van Nostrand, PhD</i>	2598

Case Report

Cerebral Gas Embolism Caused by Pleural Fibrinolytic Treatment <i>Manuel Menéndez-González, MD; Pedro Oliva-Nacarino, MD; Almudena Álvarez-Cofiño, MD</i>	2602
---	------

Comments, Opinions, and Reviews

Antiplatelets Versus Anticoagulation in Cervical Artery Dissection <i>Stefan T. Engelter, MD; Tobias Brandt, MD; Stéphanie Debette, MD; Valeria Caso, MD; Christoph Lichy, MD; Alessandro Pezzini, MD; Sherine Abboud, MD; Anna Bersano, MD; Ralf Dittrich, MD; Caspar Grond-Ginsbach, PhD; Ingrid Hausser, PhD; Manja Kloss, MD; Armin J. Grau, MD; Turgut Tatlisumak, MD, PhD; Didier Leys, MD, PhD; Philippe A. Lyrer, MD; for the Cervical Artery Dissection in Ischemic Stroke Patients (CADISP) Study Group</i>	2605
Intravenous Alteplase for Stroke: Beyond the Guidelines and in Particular Clinical Situations <i>Jacques De Keyser, MD, PhD; Zuzana Gdovinová, MD, PhD; Maarten Uyttenboogaart, MD; Patrick C. Vroomen, MD, PhD; Gert Jan Luijckx, MD, PhD</i>	2612

Topical Review

Progression of Leukoaraiosis and Cognition

Reinhold Schmidt, MD; Katja Petrovic, PhD; Stefan Ropele, PhD; Christian Enzinger, MD;
Franz Fazekas, MD

2619

Letters to the Editor

Arguments Against Left Atrial Appendage Occlusion for Stroke Prevention

Claudia Stöllberger, MD; Josef Finsterer, MD; Birke Schneider, MD **Web Site Feature** ★e77

Transesophageal Echocardiography: Not for Everyone?

Edward A. Gill, Jr, MD; W.T. Longstreth, Jr, MD; Kyra J. Becker, MD;
David L. Tirschwell, MD **Web Site Feature** ★e78

Response to Letter by Gill et al

Sebastiaan F.T.M. de Bruijn, MD, PhD; Willem R.P. Agema, MD, PhD; Gert Jan Lammers, MD, PhD;
Ernst E. van der Wall, MD, PhD; Ron Wolterbeek; Eduard R. Holman, MD, PhD; Edward L.E.M. Bollen, MD, PhD;
Jeroen J. Bax, MD, PhD **Web Site Feature** ★e79

US Multicenter Experience With the Wingspan Stent System for the Treatment of Intracranial

Atheromatous Disease: Periprocedural Results

Rishi Gupta, MD; Osama Zaidat, MD; Arshad Majid, MD **Web Site Feature** ★e80

Response to Letter by Gupta et al

David Fiorella, MD, PhD; Elad I. Levy, MD; Aquilla Turk, MD; Henry H. Woo, MD; Felipe C. Albuquerque, MD;
Cameron G. McDougall, MD **Web Site Feature** ★e81–e82

Evaluating Off-Pump Coronary Artery Bypass Grafting

Christos E. Tourmousoglou, MD, MSc; Spiros Lalos, MD; Chris Rokkas, MD **Web Site Feature** ★e83

Response to Letter by Tourmousoglou et al

Artyom Sedrakyán, MD, PhD **Web Site Feature** ★e84–e85

Should Spectrophotometry Be Used to Identify Xanthochromia in the Cerebrospinal Fluid of Alert Patients Suspected of Having Subarachnoid Hemorrhage?

Robert Beetham, PhD, FRCPath; Samden Lhatoo, MD **Web Site Feature** ★e86

Response to Letter by Beetham and Lhatoo

Jeffrey J. Perry, MD, MSc, CCFP-EM; Marco L.A. Sivilotti, MD, MSc, FRCPC **Web Site Feature** ★e87

Asymptomatic Hemorrhage After Thrombolysis May Not Be Benign: Prognosis by Hemorrhage Type of the Canadian Alteplase for Stroke Effectiveness Study Registry

Richard Libman, MD; Thomas Kwiatkowski, MD **Web Site Feature** ★e88

Significance of Experimental Infarct Size as an Indicator of Therapeutic Efficacy in Humans

Nikolaos Sakellariadis, MD; Demetrius Panagopoulos, MD **Web Site Feature** ★e89–e90

Alteplase for Patients With Ictus: the Dilemma Persists

Emilio J. Alegre, PharmD; Esmeralda Ríos, PharmD **Web Site Feature** ★e91

Why a Sex Difference in Age-Adjusted Relationship Between Height and Stroke Mortality?

Thomas Walsh, MRCPI; Teresa Donnelly, MRCPI; Declan Lyons, MD **Web Site Feature** ★e92

Response to Letter by Walsh et al

Atsushi Hozawa, MD; Tomonori Okamura, MD; Hirotugu Ueshima, MD **Web Site Feature** ★e93

Weekend Versus Weekday Admission and Stroke Outcome in Sweden From 1968 to 2005

Imre Janszky, MD, PhD; Staffan Ahnve, MD, PhD; Rickard Ljung, MD, MPH, PhD **Web Site Feature** ★e94

Response to Letter by Janszky et al

Gustavo Saposnik, MD, MSc **Web Site Feature** ★e95

Corrections **Web Site Feature** ★e96–e97

On the cover: The illustration is taken from an article in this issue, “Computation of Hemodynamics in the Circle of Willis” by Alnæs et al (*Stroke*. 2007;38:2500–2505.)