Editorials

Epidemiological Transition of Stroke in China?
Thomas Truelsen, MD, PhD, DMSC; Ruth Bonita, MPH, PhD

Early Stroke Risk After a Transient Ischemic Attack: Can It Be Minimized?
Jonathan Y. Streifler, MD

Are We Ready to Avert Suicide in Intracerebral Hemorrhage?
Jose I. Suarez, MD

Is It Time to Definitely Abandon Neuroprotection in Acute Ischemic Stroke?
Maria Luisa Sacchetti, PhD, MD

Symptomatic Intracranial Atherosclerotic Disease: What Is the Best Treatment Option?
Rishi Gupta, MD

Interventional Management of Stroke
Andreas Gruber, MD

Predictions Models in Acute Stroke: Potential Uses and Limitations
Martin Dennis, MD

Improving Onset to Needle Time: Knowledge Is Not Enough
Richard I. Lindley, MBBS, MD, FRCP(Edin), FRACP

Original Contributions

Epidemiological Transition of Stroke in China: Twenty-One-Year Observational Study From the Sino-MONICA-Beijing Project
Dong Zhao, MD, PhD; Jing Liu, MD, MPH; Wei Wang, MD; Zhechun Zeng, MD; Jun Cheng, MD, MPH; Jun Liu, BA; Jiayi Sun, BA; Zhaosu Wu, MD, MPH

Regional Differences in Diabetes as a Possible Contributor to the Geographic Disparity in Stroke Mortality: The REasons for Geographic And Racial Differences in Stroke Study
Jenifer H. Voeks, PhD; Leslie A. McClure, PhD; Rodney C. Go, PhD; Ronald J. Prineas, MD, PhD; Mary Cushman, MD, MS; Brett M. Kissela, MD, Jeffrey M. Roseman, MD, PhD

Coffee and Tea Consumption and Risk of Stroke Subtypes in Male Smokers
Susanna C. Larsson, PhD; Satu Männistö, PhD; Mikko J. Virtanen, MSc; Jukka Kontto, MSc; Demetrius Albanes, MD; Jarno Virtamo, MD

Cigarette Smoking and Risk of Stroke in the Chinese Adult Population
Tanika N. Kelly, MPH; Dongfeng Gu, MD, MSc; Jing Chen, MD, MSc; Jian-feng Huang, MD; Ji-chun Chen, MD; Xiufang Duan, MD; Xigui Wu, MD; Chung-Shiu Chen, MS; Jiang He, MD, PhD

Cigarette Smoking, Systolic Blood Pressure, and Cardiovascular Diseases in the Asia-Pacific Region
Koshi Nakamura, MD; Federica Barzi, PhD; Tai-Hing Lam, MD; Rachel Huxley, DPhil; Valery L. Feigin, MD; Hirotugu Ueshima, MD; Jean Woo, MD; Dongfeng Gu, MD; Takayoshi Ohkubo, MD; Carlene M.M. Lawes, PhD; Il Suh, MD; Mark Woodward, PhD; for the Asia Pacific Cohort Studies Collaboration

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

STROKE A JOURNAL OF CEREBRAL CIRCULATION (ISSN 0039-2499) is published monthly by Lippincott Williams & Wilkins, at 16522 Hunters Green Parkway, Hagerstown, MD 21740. Business offices are located at 530 Walnut Street, Philadelphia, PA 19106-3621. Production offices are located at 351 West Camden Street, Baltimore, MD 21201-2436. In the US individuals may subscribe for their personal use at the following annual rates: $195 for members of an American Heart Association scientific council and $340 for nonmembers; international: $264 for members of an American Heart Association scientific council and $446 for nonmembers. Periodicals postage paid at Hagerstown, MD, and additional mailing offices. POSTMASTER: Send address changes to STROKE A JOURNAL OF CEREBRAL CIRCULATION, American Heart Association, Lippincott Williams & Wilkins, 16522 Hunters Green Parkway, Hagerstown, MD 21740.
Characterization of Cortical Microvascularization in Adult Moyamoya Disease
Marcus Czabanak, MD; Pablo Peña-Tapia, MD; Gerrit A. Schubert, MD; Johannes Woitzik, MD; Peter Vajkoczy, MD; Peter Schmiedek, MD .......................................................... 1703

Polymorphisms in Platelet Glycoprotein Ibx and Factor VII and Risk of Ischemic Stroke: A Meta-Analysis
Jane M. Maguire, BA, BNurs (Hons); Ammarin Thakkinstian, PhD; Jon Sturm, PhD; Christopher Levi, MBBS; Lisa Lincz, PhD; Mark Parsons, PhD; Scott Whyte, PhD; John Attia, PhD ............................................. 1710

Factors Associated With a High Risk of Recurrence in Patients With Transient Ischemic Attack or Minor Stroke
Angel Ois, MD; Merixtell Gomis, MD; Ana Rodríguez-Campello, MD; Elisa Cuadrado-Godia, MD; Jordi Jiménez-Conde, MD; Claustre Pont-Sunyer, MD; Gracia Gaucevrella, MD; Jaume Roquer, MD, PhD .......... 1717

Critical Cap Thickness and Rupture in Symptomatic Carotid Plaques: The Oxford Plaque Study
Jessica N. Redgrave, MRCP; Patrick Gallagher, PhD; Joanna K. Lovett, D Phil; Peter M. Rothwell, PhD .... 1722

Fas System Activation in Perihematomal Areas After Spontaneous Intracerebral Hemorrhage
Pilar Delgado, MD, PhD; Eloy Cuadrado, MSc; Anna Rosell, PhD; José Álvarez-Sabín, MD, PhD; Arantxa Ortega-Aznar, MD, PhD; Mar Hernández-Guillamón, PhD; Anna Penalba; Carlos A. Molina, MD, PhD; Joan Montaner, MD, PhD ........................................... 1730

Natural History of Dural Arteriovenous Shunts
Michael Söderman, MD, PhD; Ladislav Pavic, MD, PhD; Göran Edner, MD; Staffan Holmin, MD, PhD; Tommy Andersson, MD, PhD .............................................................. 1735

Dual Antithrombotic Therapy Increases Severe Bleeding Events in Patients With Stroke and Cardiovascular Disease: A Prospective, Multicenter, Observational Study
Kazunori Toyoda, MD; Masahiro Yasaka, MD; Kazunori Iwade, MD; Ken Nagata, MD; Yukihiro Koresune, MD; Tomohiro Sakamoto, MD; Shinichiro Uchiyama, MD; Jun Goiho, MD; Takehiko Nagao, MD; Masahiro Yamamoto, MD; Jun C. Takahashi, MD; Kazuo Minematsu, MD; for the Bleeding with Antithrombotic Therapy (BAT) Study Group ........................................... 1740

Local Intraarterial Fibrinolysis Administered in Aliquots for the Treatment of Central Retinal Artery Occlusion: The Johns Hopkins Hospital Experience
Eric M. Aldrich, MD, PhD; Andrew W. Lee, MBBS, FRACP; Celia S. Chen, MBBS, FRANZCO, MPH; Rebecca F. Gottesman, MD, PhD; Mona N. Bahouth, MSN, CRNP; Phillipe Gailloud, MD; Kieran Murphy, MD; Robert Wityk, MD; Neil R. Miller, MD, FACS ................................................................. 1746

NXY-059 for the Treatment of Acute Stroke: Pooled Analysis of the SAINT I and II Trials
Hans-Christoph Diener, MD; Kennedy R. Lees, MD; Patrick Lyden, MD; Jim Grotta, MD; Antoni Davalos, MD; Stephen M. Davis, MD, PhD; Ashfaq Shuaib, MD; Tim Ashwood, PhD; Warren Wasiewski, MD; Vivian Alderfer, PhD; Hans-Goran Hårdemark, MD; Larry Rodichok, MD; for the SAINT I and II Investigators .............................................................. 1751

Effect of Prophylactic Transluminal Balloon Angioplasty on Cerebral Vasospasm and Outcome in Patients With Fisher Grade III Subarachnoid Hemorrhage: Results of a Phase II Multicenter, Randomized, Clinical Trial
Marike Zwienenberg-Lee, MD; Jonathan Hartman, MD; Nancy Rudisill, RN, MSN; Lori Kennedy Madden, ACNP, MS; Karen Smith, RN; Joseph Eskridge, MD; David Newell, MD; Bon Verweij, MD, PhD; M. Ross Bullock, MD; Andrew Baker, MD; William Coplin, MD; Robert Mericle, MD; Jian Dai, PhD; David Rocke, MD; J. Paul Muizelaar, MD, PhD; for The Balloon Prophylaxis for Aneurysmal Vasospasm (BPAV) Study Group .............................................................. 1759

Durability of Endovascular Therapy for Symptomatic Intracranial Atherosclerosis
Mikael Mazighi, MD, PhD; Jay S. Yadav, MD; Alex Abou-Chebl, MD ................................................................. 1766

Recanalization of an Acute Middle Cerebral Artery Occlusion Using a Self-Expanding, Reconstrainable, Intracranial Microstent as a Temporary Endovascular Bypass
Michael E. Kelly, MD; Anthony J. Furlan, MD; David Fiorella, MD, PhD ................................................................ 1770

DP-b99, a Membrane-Activated Metal Ion Chelator, as Neuroprotective Therapy in Ischemic Stroke
Hans-Christoph Diener, MD; Dietmar Schneider, MD; Yair Lampl, MD; Natan M. Bornstein, MD; Alexander Kozak, PhD; Gilad Rosenberg, MD; on Behalf of the Study Group ...................................................... 1774

Effect of Pretreatment With Statins on Ischemic Stroke Outcomes
Mathew J. Reeves, PhD; Julia Warner Gargano, MS; Zhehui Luo, PhD; Andrew J. Mullard, MS; Bradley S. Jacobs, MD; Arshad Majid, MD; for the Paul Coverdell National Acute Stroke Registry Michigan Prototype Investigators .................................................................................... 1779
Enhanced Gait-Related Improvements After Therapist- Versus Robotic-Assisted Locomotor Training in Subjects With Chronic Stroke: A Randomized Controlled Study
T. George Hornby, PhD, MPT; Donielle D. Campbell, PTA; Jennifer H. Kahn, DPT; Tobey Demott, MPT; Jennifer L. Moore, MPT; Heidi R. Roth, MSPT .................................................. 1786

Contribution of Each Lower Limb to Upright Standing in Stroke Patients
Nicolas Genton, PhD; Patrice Rougier, PhD; Anne-Sophie Gissot, PT, PhD; Jérôme Froger, MD; Jacques Pélissier, MD; Dominic Perrinou, MD, PhD .................................................. 1793

Training of Reaching in Stroke Survivors With Severe and Chronic Upper Limb Paresis Using a Novel Nonrobotic Device: A Randomized Clinical Trial
Ruth N. Barker, PhD; Sandra G. Brauer, PhD; Richard G. Carson, PhD .................................................. 1800

MRI Findings in the Painful Poststroke Shoulder
Rajiv R. Shah, MD; Sepideh Haghpaham, MD; Elie P. Elovic, MD; Steven R. Flanagan, MD; Anousheh Behnegar, MD; Vu Nguyen, MD; Stephen J. Page, PhD; Zi-Ping Fang, PhD; John Chae, MD .................................................. 1808

Effects of Action Observation on Physical Training After Stroke
Pablo Celnik, MD; Brian Webster, BA; Davis M. Glasser, BS; Leonardo G. Cohen, MD .................................................. 1814

Predicting Long-Term Outcome After Acute Ischemic Stroke: A Simple Index Works in Patients From Controlled Clinical Trials
Inke R. König, PhD; Andreas Ziegler, PhD; Erich Bühmki, PhD; Werner Hacke, MD; Philip M.W. Bath, MD; Ralph L. Sacco, MD, MS; Hans C. Diener, MD; Christian Weimar, MD; on behalf of the Virtual International Stroke Trials Archive (VISTA) Investigators .................................................. 1821

Sarpogrelate-Aspirin Comparative Clinical Study for Efficacy and Safety in Secondary Prevention of Cerebral Infarction (S-ACCESS): A Randomized, Double-Blind, Aspirin-Controlled Trial
Yukito Shinohara, MD; Katsuya Nishimura, MD; Tohru Sawada, MD; Akio Terashi, MD; Shinnosuke Handa, MD; Shunsaku Hirai, MD; Kunihiko Hayashi, MD; Hideo Toghi, MD; Yasuo Fukushima, MD; Shinichiro Uchiyama, MD; Takenori Yamaguchi, MD; Shotaro Kobayashi, MD; Kazuki Kondo, MD; Eiichi Ootomo, MD; Fumio Gotoh, MD; for the S-ACCESS Study Group .................................................. 1827

Importance of In-Hospital Initiation of Therapies and Therapeutic Inertia in Secondary Stroke Prevention: IMplementation of Prevention After a Cerebrovascular evenT (IMPACT) Study
Emmanuel Touze, MD, PhD; Joël Coste, MD, PhD; Magdalena Voicu, MD; Jamal Kansao, MD; Rafik Masmoudi, MD; Benoît Doumenc, MD; Pierre Durieux, MD, PhD; Jean-Louis Mas, MD .................................................. 1834

Calling 911 in Response to Stroke: A Nationwide Study Assessing Definitive Individual Behavior
Robert Mikulik, MD, PhD; Laura Bunt, PhD; Daniel Hrdlička; Ladislav Dušek, PhD; Daniel Václavík, MD; Jiří Krýza .................................................. 1844

Outpatient Practice Patterns After Stroke Hospitalization Among Neurologists
Bruce Ovbiagele, MD; Oksana Drogan, MS; Walter J. Koroshetz, MD; Pierre Fayad, MD; Jeffrey L. Saver, MD .................................................. 1850

Meta-Analyses of the Efficacy of Granulocyte-Colony Stimulating Factor in Animal Models of Focal Cerebral Ischemia
Jens Minnerup, MD; Jan Heidrich, MD, MSc; Jürgen Wellmann, PhD; Andreas Rogalewski, MD; Armin Schneider, MD; Wolf-Rudiger Schäbitz, MD .................................................. 1855

Early Diffusion-Weighted MRI as a Predictor of Caspase-3 Activation After Hypoxic–Ischemic Insult in Neonatal Rodents
Michael F. Wendland, PhD; Joel Faustino, BS; Tim West, PhD; Catherine Manabat, BS; David M. Holtzman, MD; Zinaida S. Vexler, PhD .................................................. 1862

Effects of Neuroglobin Overexpression on Acute Brain Injury and Long-Term Outcomes After Focal Cerebral Ischemia
Xiaoying Wang, MD, PhD; Jianxian Liu, MD, PhD; Haihao Zhu, MD, PhD; Emiri Tejima, MD; Kiyoshi Tsuji, MD; Yoshihiro Murata, MD; Dmitriy N. Atochin, PhD; Paul L. Huang, MD, PhD; Chenggang Zhang, PhD; Eng H. Lo, PhD .................................................. 1869

Granulocyte-Macrophage Colony-Stimulating Factor Enhances Leptomeningeal Collateral Growth Induced by Common Carotid Artery Occlusion
Kenichi Todo, MD; Kazuto Kitagawa, MD, PhD; Tsutomu Sasaki, MD, PhD; Etsu Omura-Matsuoka, MD; Yasuaka Terasaki, MD; Naoki Oyama, MD; Yoshiki Yagita, MD, PhD; Masatsugu Hori, MD, PhD .................................................. 1875

Ubiquitin-Mediated Stress Response in the Spinal Cord After Transient Ischemia
Takashi Yamauchi, MD, PhD; Masahiro Sakurai, MD, PhD; Koji Abe, MD, PhD; Goro Matsumiya, MD, PhD; Yoshiki Sawa, MD, PhD .................................................. 1883
Research Letters

Falls After Stroke: Results From the Auckland Regional Community Stroke (ARCOS) Study, 2002 to 2003
Ngaire Kerse, PhD; Varsha Parag, MSc; Valery L. Feigin, PhD; Harry McNaughton, PhD; Maree L. Hackett, PhD; Derrick A. Bennett, PhD; Craig S. Anderson, PhD; and the Auckland Regional Community Stroke (ARCOS) Study Group .......................... 1890

Assessment of Intracranial Collateral Flow by Using Dynamic Arterial Spin Labeling MRA and Transcranial Color-Coded Duplex Ultrasound
Fabrizio Sallustio, MD; Rolf Kern, MD; Matthias Günter, PhD; Kristina Szabo, MD; Martin Griebe, MD; Stephen Meairs, MD; Michael Hennerici, MD; Achim Gass, MD ..................... 1894

When to Expect Negative Diffusion-Weighted Images in Stroke and Transient Ischemic Attack
P.N. Sylaja, MD; Shelagh B. Coutts, MD, FRCPC; Andrea Krol, BSc; Michael D. Hill, MD, MSc, FRCPC; Andrew M. Demchuk, MD, FRCPC; for the VISION Study Group ...................... 1898

Progress Reviews

Comparison of 12 Risk Stratification Schemes to Predict Stroke in Patients With Nonvalvular Atrial Fibrillation
Stroke Risk in Atrial Fibrillation Working Group CME ................................................. 1901

New Brain Lesions After Carotid Stenting Versus Carotid Endarterectomy: A Systematic Review of the Literature
Sonja Schnaudigel, MD; Klaus Gröschel, MD; Sara M. Pilgram, MD; Andreas Kastrup, MD ................ 1911

Topical Review

Stroke in Rural Areas and Small Communities
Jacques Joubert, MBChB, MD, MRCP, FRACP; Louise F. Prentice, MBBS, FRACP; Thierry Moulin, PhD; Siaw-Teng Liaw, PhD; Lynette Joubert, D.Litt et Phil; Pierre-Marie Preux, MD; Dallas Ware; Elizabeth Medeiros de Bustos, MD; Allan McLean, PhD, FRACP .................. 1920

Cochrane Corner

Electromechanical-Assisted Gait Training With Physiotherapy May Improve Walking After Stroke
Jan Mehrholz, DrPH; Cordula Werner, PhD; Joachim Kugler, MD; Marcus Pohl, MD .................. 1929

Letters to the Editor

Echocardiographic Findings That May Help Identify Occult Intermittent Atrial Fibrillation in Hypertensive Patients at Risk for a Second (or First) Ischemic Stroke
Jacob I. Haft, MD, FAHA, FHRs, FACC [Web Site Feature] ........................................... ★e91

Response to Letter by Haft
Joy Liao, MD; Martin O’Donnell, MB MRCP [Web Site Feature] ........................................ ♠e92

Major Ongoing Stroke Trials [Web Site Feature] ................................................................. ★e93–e101
