EDITORIAL: Treatment of Impending Stroke  
Fletcher H. McDowell, Clark H. Millikan, and Murray Goldstein  

Anticoagulant vs Anti-Platelet Therapy As Prophylactic Against Cerebral Infarction in Transient Ischemic Attacks  
Jan-Edvin Olsson, Carl Brechter, Hans Bäcklund, Hans Krook, Ragnar Müller, Eva Nitelius, Olle Olsson, and Axel Tornberg  

Plasma Acetylsalicylate and Salicylate and Platelet Cyclooxygenase Activity Following Plain and Enteric-Coated Aspirin  
M. Ali, J. W. D. McDonald, J. J. Thiessen, and P. E. Coates  

Factors Related to Stroke Incidence in Hawaii Japanese Men. The Honolulu Heart Study  
Abraham Kagan, Jordan S. Popper, and George G. Rhoads  

Incidence of Transient Cerebral Ischemic Attack in Hawaii Japanese Men. The Honolulu Heart Study  
George G. Rhoads, Jordan S. Popper, Abraham Kagan, and Katsuhiko Yano  

Comparison of Doppler Sonography and Plate Thermography for Detection of Carotid Artery Stenosis  
B. Hofferberth, M. Gottschaldt, and S. Dykan  

Reduction in Regional Cerebral Blood Flow During Normal Aging in Man  
Eldad Melamed, Sylvan Lavy, Shlomo Bentin, Gerald Cooper, and Yosef Rinot  

Effect of Chronic Atrial Fibrillation on Regional Cerebral Blood Flow  
Sylvan Lavy, Shlomo Stern, Eldad Melamed, Gerald Cooper, Andre Keren, and Pirha Levy  

Regional Cerebral Blood Flow in the Rat as Determined by Particle Distribution and by Diffusible Tracer  
Roger W. Horton, Timothy A. Pedley, and Brian S. Meldrum  

Positron Imaging of Cerebral Blood Flow During Continuous Inhalation of C18O2  
Robert H. Ackerman, Rajeshwari Subramanyam, John A. Correa, Nathaniel M. Alpert, and Juan M. Taveras  

Cerebral Pathophysiology in Hemorrhagic Shock. Nuclide Scan Data, Fluorescence Microscopy, and Anatomic Correlations  
Michael M. Bronshvag  

Low Molecular Weight Dextran in Experimental Embolectomy  
Ranjit K. Laha, Jacob Israeli, Manuel Dujovny, Pedro J. Barriomoveu, and Harold R. Hellstrom  

Extracranial Occlusive Vascular Disease: Does Size Matter?  
Louis R. Caplan and Richard Baker  

Carotid Artery Velocity Patterns in Normal and Stenotic Vessels  
W. M. Blackshear, Jr., D. J. Phillips, P. M. Chikos, J. D. Harley, B. L. Thiele, and D. E. Strandness, Jr.  

Comparative Effects of Unilateral and Bilateral Carotid Artery Ligation in the Spontaneously Hypertensive Rat  
Bernard C. Wexler  

Correlation Between Glucose Utilization and Metabolite Levels During Focal Ischemia in Cat Brain  
Frank A. Welsh, Joel H. Greenberg, Stephen C. Jones, Myron D. Ginsberg, and Marin Reivich  

Primary Pontine Hemorrhage: Clinico-pathological Correlations  
Noboru Goto, Mitsuo Kaneko, Yasuaki Hosaka, and Hirooki Koga  

Arterial Occlusion Following Anastomosis of the Superficial Temporal Artery to Middle Cerebral Artery  
Anthony J. Furlan, John R. Little, and Donald F. Dohn  

Spontaneous Bilateral Recanalization in Bilateral Internal Carotid Artery Occlusion  
Thomas-Marc Markwalder, Richard W. Starrett, and Mark Mumenthaler  

BRIEF COMMUNICATION: Effects of Formaldehyde Fixation on Basilar Artery Caliber  
Michael Noel Hart and Susan L. O'Donnell  

Abstracts of Literature  

Abstracts of the 5th Joint Meeting on Stroke and Cerebral Circulation  

News from the American Heart Association  

(Continued)
CONTENTS OF VOLUME XI

No. 2 (March-April)

EDITORIAL: In Answer to the Question: "As Compared to What?" A Progress Report on the EC/IC Bypass Study .......................... 137

Integrity of Blood-Brain Barrier During Ethanol Intoxication and Withdrawal in the Rat: Normal Glucose Transfer and Permeability to Na⁺ and Cl⁻ .......................... 141
Ralf Hemmingsen, Marianne M. Hertz, and Tom G. Bolwig

Migrainous Cerebral Infarction: A Tomographic Study of Cerebral Blood Flow and Oxygen Extraction Fraction with the Oxygen-15 Inhalation Technique .......................... 145
M. G. Bouser, J. C. Baron, M. T. Iba-Zizen, D. Comar, E. Cabanis, and P. Castaigne

Cerebral Infarction in Young Adults. Long Term Prognosis .......................... 149
Bruce D. Snyder and Manuel Ramirez-Lassepas

Retinal Fluorescein Angiographic Evidence for Atheromatous Microembolism. Demonstration of Ophthalmoscopically Occult Emboli and Post-Embolic Endothelial Damage After Attacks of Amaurosis Fugax .......................... 154
Rafael Muci-Mendoza, Jorge Arruga, William O. Edward, and William F. Hoyt

Embolization from a Fusiform Middle Cerebral Artery Aneurysm .......................... 158
Michael Martin Cohen, Coimbatore P. Hemalatha, Richard T. D’Addario, and H. Warren Goldman

B. Herman, B. P. M. Schulte, J. H. van Luijk, A. C. M. Leyten, and ACM. Leyten

Effect of Steroid on Ischemic Brain Edema. Analysis of Cytotoxic and Vasogenic Edema Occurring During Ischemia and After Restoration of Blood Flow .......................... 166
Umeo Ito, Kikuo Ohno, Yasuo Suganuma, Kenichi Suzuki, and Yuuta Inaba

Temporal Profile (Clinical Course) of Acute Vertebrobasilar System Cerebral Infarction 173
H. Royden Jones, Jr., Clark H. Millikan and Byron A. Sundok

Bilateral Nothnagel Syndrome. Clinical and Roentgenological Observations .......................... 177
Iraj Derakhshian, Mansour Shabouri-Shayamy, and Benjamin Kaufman

Cerebral Venous Pressure During Actively Induced Hypertension and Hypercapnia in Cats .......................... 180
L. Auer, B. Johansson and E. T. MacKenzie

Cholesterol Crystal Embolization in Rat Brain: A Model for Atheroembolic Cerebral Infarction .......................... 184
T. J. Steiner, D. L. H. Rail, and F. Clifford Rose

Hemorrhage-Induced Cerebral Vasocostriction in Dogs .......................... 190
William J. Pearce and Louis G. D’Aley

A Re-Examination of Physostigmine-Induced Cerebral Protection in the Hypoxic Mouse. A Critical Assessment of the Model .......................... 197
Alan A. Artru, and John D. Michenfelder

Spinal Cord Infarction: A Highly Reproducible Stroke Model .......................... 200
Justin A. Zivin, and Umberto DeGirolami

A Gerbil Model of Cerebral Ischemia Suitable for Drug Evaluation .......................... 203
D. M. Jarrott and Floyd R. Homer

CURRENT CONCEPTS OF CEREBROVASCULAR DISEASE-STROKE: Use of Balloon Catheters in the Treatment of Cranial Arterial Abnormalities .......................... 210
Charles Kerber

Letters to the Editor: Need for CA Doppler Exam Following Endarterectomy .......................... 217
G. M. von Reutern, and J. Gonzales

Abstracts of Literature .......................... 218
News from the American Heart Association .... 234A

No. 3 (May-June)

Amelioration of Cerebral Ischemia by Prior Treatment of Hypertension .... 235
James H. Halsey, Jr., Michael O’Brien, and Edward R. Strong

Physiological Mechanisms Controlling Cerebral Blood Flow .......................... 240
George McDevitt

Ultrasound Demonstration of External and Internal Carotid Patency with Common Carotid Occlusion: A Preliminary Report .......................... 249

Cardiovascular Mortality in Transient Ischemic Attacks .......................... 252
Siegfried Heyden, Gerardo Heibs, Albert Heyman, Alfred H. Tyroler, Curtis G. Hames, Ulrich Pfitzschke, and Christian Manegold

Computed Tomography in Patients Presenting with Lacunar Syndromes .......................... 256

Evidence for Greater Susceptibility of Isolated Dog Cerebral Arteries to Ca Antagonists than Peripheral Arteries .......................... 261
Koichiro Shimizu, Tomio Ohta, and Noboru Toda

Morphometric Study on Cerebral Vessels in Spontaneously Hypertensive Rats .......................... 266
Claes Nordborg and Barbro B. Johansson

Effects of Gamma-Hydroxybutyrate and Gamma-Butyrolactone on Cerebral Energy Metabolism During Exposure and Recovery From Hypoxemia-Oligemia .......................... 271
V. MacMillan

(Continued)
CONTENTS OF VOLUME XI

Resolving Siphon Stenosis Following Endarterectomy ............................................. 278
Arthur L. Day, Albert L. Rhoton, and Ronald G. Quisling

Steal Phenomenon at Unclamping During Carotid Endarterectomy ......................... 282

Enhancement of Cerebrovascular Effect of CO2 by Hypoxia ..................................... 286
Stephen R. Quint, Oscar U. Scremin, Ralph R. Sontschein, and Eduardo H. Rubinstein

Amaurosis Fugax Associated with Ophthalmic Artery Stenosis: Clinical Simulation of Carotid Artery Disease .............................................................. 290
Jesse Weinberger, Adam N. Bender and Wen C. Yang

Superior Sagittal Sinus Thrombosis 10 Years After Surgery for Ulcerative Colitis ........ 294
Mark S. Yerby and George M. Bailey

Hyperbaric Oxygenation as an Adjunct Therapy in Strokes Due to Thrombosis: A Review of 122 Patients ................................................................. 297
Richard A. Neubauer and Edgar End

CURRENT CONCEPTS OF CEREBROVASCULAR DISEASE-STROKE Dizziness and Vertigo in Vertebrobasilar Disease Part 1: Peripheral and Systemic Causes of Dizziness .................. 301
B. Todd Troost

Letters to the Editor: Long Time Survival After Vertebral/Basilar Occlusion ............... 304
Kjell Asplund, P. O. Wester, Harald Fosstadi, and Bengt Liljquist

Value of the Non-Invasive Cerebrovascular Laboratory in Diagnosis of Extracranial Carotid Artery Disease. An Analysis of 159 Studies in 157 Patients ......................................................... 325
Arnold Goran and Gail Moore

Elastic Elements in the Media and Adventitia of Human Intracranial Extracerebral Arteries F. T. Merei, F. Gallyas, and Z. Horvath

Production of Various Models of Cerebral Infarction in the Dog by Means of Occlusion of Intracranial Trunk Arteries ......................................................... 337
Jiro Suzuki, Takashi Yashimoto, Satoru Thanaka, and Tetsuya Sakamoto

Cerebral Hemodynamic Response to Mental Activation in Normo- and Hypercapnia .... 342
V. Alexander Maximilian, I. Bank Prohorovnik, and Jari Risberg

Deletious Effect of Glucose Pretreatment on Recovery from Diffuse Cerebral Ischemia in the Cat. I. Local Cerebral Blood Flow and Glucose Utilization .................. 347
Myron D. Ginsberg, Frank A. Welsh, and William W. Budd

Deletious Effect of Glucose Pretreatment on Recovery from Diffuse Cerebral Ischemia in the Cat. II. Regional Metabolic Levels .................................. 355
Frank A. Welsh, Myron D. Ginsberg, Wendy Rieder, and William W. Budd

Cerebral Arterial Contractions Induced by Human and Bovine Thrombin ................ 363
Richard P. White, Charles E. Chapleau, Marion Dugdale, and James T. Robertson

Pial Vascular Reaction to Intravenous Dihydralazine in the Cat ................................ 369
Barbro B. Johansson, Ludwig M. Auer, and Ulrike G. Trummer

Analysis of Cerebrovascular Action of Diazoxide in Conscious Goats ..................... 372
G. Dieguez, B. Gomez, and S. Lluch

Cerebral Protective, Metabolic, and Vascular Effects of Phenytoin .......................... 377
Alan A. Artru and John D. Michenfelder

Role of Central Aminergic Fibers in Experimental Cerebral Ischemia in Stroke-Prone SHR. Relation to Anesthetic Effect ................................................. 383
Ichiro Akiguchi, Ryuichi Horie, and Yukio Yamori

Hemodynamic Response to Profound Hypoxia in Intact Rhesus Monkeys .................. 389
Ronald E. Myers, Gary S. Kopf, and David M. Morris

Effects of Surrounding Tissue on the Sound Spectrum of Arterial Bruits in Vivo ........ 394
Arnold Miller, Robert S. Lees, J. Philip Kistler, and William M. Abbott

Prediction of Hemispheric Blood Flow From Carotid Velocity Measurements. A Study with the Doppler and 18O Xe Inhalation Techniques ...................... 399
Jarl Risberg and Patrick Smith

Comparison of Doppler Ultrasonography with Arteriography of the Carotid Artery Bifurcation ................................................................. 402
R. G. Weaver, Jr., George Howard, William M. McKinney, Marshall R. Ball, Anne M. Jones, and James F. Toole

Lipohyalinosis and Milliary Microaneurysms Causing Cerebral Hemorrhage in a Patient with Moyamoya. A Clinicopathological Study ........................................ 405
Anthony J. Mauro, Edward S. Johnson, Paul M. Chikos, and Ellsworth C. Alvord, Jr.

Erratum ........................................ 412

CURRENT CONCEPTS OF CEREBROVASCULAR DISEASE-STROKE Dizziness and Vertigo in Vertebrobasilar Disease. Part II. Central Causes and Vertebrobasilar Disease .... 413
B. Todd Troost

Abstracts of Literature ........................................ 416

News from the American Heart Association ......................................................... 416

(Continued)
EDITORIAL: Cerebral Blood Flow and Energy Metabolism in Vascular Insufficiency
Cesare Fiaschi

PROGRESS IN CEREBROVASCULAR DISEASE. Management of Cerebral Embolism of Cardiac Origin
J. Donald Easton and David G. Sherman

Summary of 12th Conference on Cerebrovascular Disease. Williamsburg, Virginia, March 2-4, 1980
Fletcher H. McDowell and Clark H. Millikan

Radionuclide Angiography and Doppler Sonography to Detect Patients with Cerebrovascular Disease. A Correlation with Radiographic Angiography
U. Buell, D. Leschem, M. Rath, M. Rose, and F. Marguth

Quantitative Study of the Rate of Recovery From Aphasia Due to Ischemic Stroke
G. Demeurisse, O. Demol, M. Derouck, R. De Beuckelaer, M.-J. Coekaerts, and A. Capon

Subdural Hematoma of the Spinal Cord and Widespread Subarachnoid Hemorrhage Complicating Anticoagulant Therapy
H. V. Vinters, H. J. M. Barnett, and J. C. E. Kaufmann

Intracranial Embolization Via External Carotid Artery: Report of a Case with Angiographic Documentation
Roger W. Countee and Thurairasah Vijayanathan

Response of Cerebral Circulation to Topical Histamine
Albert N. Martius, Thomas F. Doyle, Sanford J. Wright, Jr., and Billy G. Bass

Cerebral Fat Embolism: A Neuropathological Study of a Microembolic State
Elisabeth Kamenar and Peter C. Burger

Angiographic Appearance of Carotid Occlusion in Acute Stroke
Michael S. Pessin, Gary W. Duncan, Kenneth R. Davis, Richard C. Hinton, Glen H. Roberson, and J. P. Mohr

Correlation Between rCBF and Histological Changes Following Temporary Middle Cerebral Artery Occlusion
Akira Tamura, Takao Asano, and Keiji Sano

Cerebral Blood Flow and Edema Following Carotid Occlusion in the Gerbil
Alan Crockard, Fausto Iannotti, Alan T. Hurstock, Roger D. Smith, Robert J. Harris, and Lindsay Symon

Brain Events Associated with Mitral Valve Prolapse
Maurice R. Hanson, John P. Conomy and James R. Hodgman

Butanediol Induced Ketosis Increases Tolerance to Hypoxia in the Mouse
Jeffrey R. Kirsch, Louis G. D'Alecy, and Peter B. Mongroo

Hypoxic Tolerance Enhanced By β-Hydroxybutyrate-Glucagon in the Mouse
Steven M. Elger, Jeffrey R. Kirsch, and Louis G. D'Alecy

Transient Appearance of “No-Reflow” Phenomenon in Mongolian Gerbils
Umeo Ito, Kikuo Ohno, Takekane Yamaguchi, Hiroki Tomita, Yuuka Inaba, and Masatoshi Kashima

Cholinergic Regulation of Intracerebral Noradrenergic Pathway-Induced Hypothalamic Vasodilatation
K. P. Klugman, G. Mitchell, and C. Rosendoff

Light Touch Thresholds in Normal Persons and Cerebral Vascular Disease Patients: Bilateral Deficit After Unilateral Lesion
June Perry Essig, Jerome W. Gersten, and Philip Yarnell

Local Cerebral Blood Flow Following Transient Cerebral Ischemia. I. Onset of Impaired Reperfusion within the First Hour Following Global Ischemia
Calvin L. Miller, Douglas G. Lampard, Karl Alexander, and William A. Brown

Local Cerebral Blood Flow Following Transient Cerebral Ischemia. II. Effect of Arterial PCO2 on Reperfusion Following Global Ischemia
Calvin L. Miller, Karl Alexander, Douglas G. Lampard, William A. Brown and Robert Griffiths

Survival Under Hypoxia. Age Dependence and Effect of Cholinergic Drugs
Antonia M. E. Scremin, Oscar U. Scremin, and Theresa Brechner

H2 Clearance Measurement of Blood Flow: A Review of the Technique and Polarographic Principles
Wise Young

CURRENT CONCEPTS OF CEREBROVASCULAR DISEASE-STROKE Amelioration of Post-ischemic Brain Damage with Barbiturates
Peter Safar

Letters to the Editor: Liquid Crystal Thermography: Comments on Technique
Thomas W. Furlow, Jr.

Abstracts of Literature

News from the American Heart Association
CONTENTS OF VOLUME XI

No. 6 (November-December)

Experimental Brain Infarcts in Cats. I. Pathophysiological Observations 583
  K.-A. Hossmann and F.J. Schuier

Experimental Brain Infarcts in Cats. II. Ischemic Brain Edema 593
  F.J. Schuier and K.-A. Hossmann

Intra-Arterial Nitroprusside Treatment of Acute Experimental Vasospasm 601
  Leonard F. Hirsh

Effect of Hypertension on Blood-Brain Barrier Change After Restoration of Blood Flow in Post-Ischemic Gerbil Brains 606
  Umeo Ito, Kikuo Ohno, Takekane Yamaguchi, Hidenori Takei, Hiroki Tomita and Yutaka Inaba

Experimental Cerebral Ischemia in Spontaneously Hypertensive Rats (SHR); Importance of Degree of Hypertension 612
  Masatoshi Fujishima, Kinya Tamaki, Yasuo Nakatomi, Takao Isihitsuka, Keiko Nakagawara, and Teruo Omoe

Tissue Pertechnetate and Iodinated Contrast Material in Ischemic Stroke 617
  David C. Anderson, David T. Coss, Ronald L. Jacobson, and Maurice W. Meyer

Histochemical Changes of Brain Dopamine in an Acute Stage of Cerebral Ischemia in Gerbils 622
  Asamitsu Ahagon, Masatsune Ishikawa, and Hajime Handa

“Low Perfusion Hyperemia” Following Middle Cerebral Arterial Occlusion in Cats of Different Age Groups 629
  Minoru Tomita, Fumio Gotoh, Takahiro Amano, Norio Tanahashi, and Kojiro Tanaka

Central Conduction Time in Primate Brain Ischemia — A Study in Baboons 637
  Judy R. Hargadine, Neil M. Brassion, and Lindsay Symon

Temporal Profile of Vertebrobasilar Territory Infarction Prognostic Implications 643
  Barbara K. Patrick, Manuel Ramirez-Laxeras, and Bruce D. Snyder

Effect of Unilateral Common Carotid Artery Occlusion on Levels of Prostaglandins D, F, and 6-Keto-Prostaglandin F in Gerbil Brain 648
  Robert J. Gaudet and Lawrence Levine

Morphometry of Brain Parenchymal Vessels Following Subarachnoid Hemorrhage 653
  Michael Noel Hart

Progressive Vascular Changes in Moyamoya Syndrome 656
  Martin J. Murphy

Primitive Hypoglossal Artery and Carotid Endarterectomy 658
  Joe A. Pinkerton, Jr., Kendrick C. Davidson, and Blaine Z. Hixbard

Continuous Quantitative Local Cerebral Blood Flow Measurement. Calibration of Thermal Conductivity Measurements by the Hydrogen Clearance Method 661
  Joseph F. Cattick and Joel Myklebust

Myocardial Necrosis Induced by Breeding in Stroke-Prone/SHR 665
  Bernard C. Wesler

Cervical Bruits in Hemodialysis Patients 672
  Gary W. Duncan, Howard S. Kirshner, and William J. Stone

CURRENT CONCEPTS OF CEREBROVASCULAR DISEASE-STROKE Non-invasive Carotid Evaluation 675
  Robert H. Ackerman

An Appreciation 679

Letters to the Editor: Plate Thermography: Thermal Asymmetry 680
  B. Hofferberth

Abstracts of Literature 681

News from the American Heart Association 700A

Volume Author Index 701

Volume Subject Index 704