

A distinctive new journal —

NEUROSURGERY

OFFICIAL PUBLICATION OF THE CONGRESS OF NEUROLOGICAL SURGEONS

First Issue:
July, 1977



Editor:
Robert H. Wilkins, M.D.

Since it was formed in 1951, the Congress of Neurological Surgeons has been dedicated to the following goals:

- to maintain high standards of neurosurgical practice
- to promote the education of neurosurgeons worldwide
- to disseminate scientific knowledge and encourage scientific research in neurosurgery and related fields
- to promote mutual fellowship among neurological surgeons.

One means of reaching these goals was the publication, annually, of significant work in clinical neurosurgery. Now, the Congress has made the decision to publish a bimonthly journal, NEUROSURGERY, which will contribute significantly to the continued meeting of these goals.



WILLIAMS & WILKINS

428 E. Preston Street • Baltimore, Maryland 21202

NEUROSURGERY is designed to be comprehensive in scope, and will publish in the following general areas:

- **Clinical, Scientific, and Historical Contributions**
Original clinical and research articles; historically relevant articles. Papers in this section will be put in perspective by the comments of the reviewers — members of the editorial board, as well as other experts.
- **Short Communications**
Preliminary reports of promising research; noteworthy case reports; reports of new techniques and advances in instrumentation.
- **Neurosurgery in the United States**
Evaluations of current events, special programs, and innovations in in-training programs.
- **International Neurosurgery**
Survey of the international literature, with abstracts (in English) of significant articles; essays on the development and practice of neurosurgery in various countries; news of interest to neurosurgeons from the international scene.
- **Meeting Abstracts**
Abstracts of papers presented at certain neurosurgical meetings.
- **Related Disciplines**
Abstracts from the literature of specialties related to neurosurgery, including neurology, orthopaedic surgery, anesthesiology, radiology, and pathology. A review article in each issue will discuss a topic of interest from a related field.
- **Neuroscience for the Neurosurgeon**
Distillations of research findings from the many-disciplined neurosciences, and their role in neurosurgery.
- **Socio-Economic Affairs**
Timely reports of legislative and regulatory developments, and their effect upon the practice of neurosurgery.
- **Neurosurgical Materials and Devices**
Reports of innovations in apparatus and instrumentation, their standardization and regulation.
- **Book Reviews** ● **Continuing Education Calendar**
- **Announcements** ● **Letters to the Editor**

NEUROSURGERY

Official Publication of the Congress of Neurosurgeons

EDITOR — Robert H. Wilkins, M.D., Durham, North Carolina

ASSOCIATE EDITOR — Perry Black, M.D., Baltimore, Maryland

JOURNAL MANAGEMENT COMMITTEE

Bernard S. Patrick, M.D., Jackson, Mississippi
Robert G. Ojemann, M.D., Boston, Massachusetts
Bruce F. Sorensen, M.D., Salt Lake City, Utah
Albert L. Rhoton, Jr., M.D., Gainesville, Florida

SPECIAL FEATURE EDITORS

Kenneth R. Smith, Jr., M.D., St. Louis, Missouri
(United States Neurosurgery)

Perry Black, M.D., Baltimore, Maryland
(International Neurosurgery)

Clark Watts, M.D., Columbia, Missouri
(Related Disciplines)

William H. Sweet, M.D., Boston, Massachusetts
(Neuroscience for the Neurosurgeon)

Donald H. Stewart, M.D., Syracuse, New York
(Socio-Economic Affairs)

Charles V. Burton, M.D., Minneapolis, Minnesota
(Neurosurgical Materials)

Blaine S. Nashold, Jr., M.D., Durham, North Carolina
(Book Reviews)

Leonard I. Kranzler, M.D., Chicago, Illinois
(Continuing Education Calendar)

William A. Buchheit, M.D., Philadelphia, Pennsylvania
(Announcements)

EDITORIAL BOARD

Donald P. Becker, M.D., Richmond, Virginia
Peter W. Carmel, M.D., New York, New York
Stewart B. Dunsker, M.D., Cincinnati, Ohio
Eugene S. Flamm, M.D., New York, New York
Philip L. Gildenberg, M.D., Houston, Texas
Robert G. Grossman, M.D., Galveston, Texas
M. Peter Heilbrun, M.D., Salt Lake City, Utah
Julian T. Hoff, M.D., San Francisco, California
David L. Kelly, Jr., M.D., Winston-Salem, North Carolina
Glenn W. Kindt, M.D., Ann Arbor, Michigan
David G. Kline, M.D., New Orleans, Louisiana
Edward R. Laws, Jr., M.D., Rochester, Minnesota
Joseph C. Maroon, M.D., Pittsburgh, Pennsylvania
Mark S. O'Brien, M.D., Atlanta, Georgia
George A. Ojemann, M.D., Seattle, Washington
Larry K. Page, M.D., Miami, Florida
Sydney J. Peerless, M.D., London, Ontario
Donald H. Reigel, M.D., Pittsburgh, Pennsylvania
Frederick A. Simeone, M.D., Philadelphia, Pennsylvania
John M. Tew, Jr., M.D., Cincinnati, Ohio
Javier Verdura, M.D., Mexico City, Mexico
David Yashon, M.D., Columbus, Ohio

NEUROSURGERY, Volume 1, Number 1, July, 1977 — CONTENTS

Editorial Introduction

Clinical and scientific communications

Complications of Chemonucleolysis for Lumbar Disc Disease. Clark Watts, M.D.

Neurosurgery and the Anatomy of Reading: A Practical Review. Samuel H. Greenblatt, M.D.

A Comparison of Percutaneous Radiofrequency Trigeminal Neurolysis and Microvascular Decompression of the Trigeminal Nerve for the Treatment of Tic Douloureux. Ronald I. Apfelbaum, M.D. and Leo M. Davidoff

Results of the Microsurgical Extradural Arterial Bypass in the Treatment of Cerebral Ischemia. M. Gazi Yasargil, M.D. and Yasuhiro Yonekawa, M.D.

The Treatment of Intracranial Aneurysms by Injection with a Tissue Adhesive. Peter E. Sheptak, M.D., Paul H. Zanetti, M.D., and Anthony F. Susen, M.D.

Anatomical Grading of Supratentorial

Operability. Alfred J. Luessenhop, M.D. and Thomas A. Gennarelli, M.D.

The Infratentorial-Supracerebellar Exposure of Tumors in the Pineal Area. Larry K. Page, M.D.

A Study of Experimental Syringomyelia by Scanning Electron Microscopy. Peter Hall, M.B., B.S., John Godersky, M.D., Jans Muller, M.D., Robert Campbell, M.D., and John Kalsbeck, M.D.

Recirculatory Spinal Subarachnoid Perfusion in Dogs: A Method for Determining CSF Dynamics under Non-Steady State Conditions. Frederick H. Sklar, M.D. and Donlin M. Long, M.D.

Short communications

Cranial Computed Tomographic Demonstration of Intracranial Penetration by an Orbital Foreign Body. L. Dade Lunsford, M.D., Jack Woodford, M.D., and Burton P. Draver, M.D.

A Simple Formula for Calculating the Volume of Subdural Hematomas. James Sachs, B.S.M.E. and Ernest Sachs, Jr., M.D.

Neurosurgery in the United States

The American Board of Neurological Surgery. Kemp Clark, M.D.

Meeting Abstracts

Thirty-Seventh Annual Meeting of the American Academy of Neurological Surgery, Charleston, South Carolina, November 11-13, 1976.

Related disciplines

Computer Processing of CT Images: Advances and Prospects. Gregory N. Larsen, Ph.D., William Glenn, M.D., P. R. S. Kishore, M.D., Kenneth Davis, M.D., William McFarland, Ph.D., and Samuel J. Dwyer, III, Ph.D.