

施米德克 · 斯威特

神经外科手术学

Schmidek & Sweet
**Operative
Neurosurgical
Techniques**

原著 Henry H. Schmidek 主译 王任直等

第4版
下 卷



人民卫生出版社

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原 著 Henry H. Schmidek

主 译 王任直 于春江 许百男 张亚卓

副主译 杨 义 陶 蔚 马文斌 赵元立

主 审 任祖渊 苏长保

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序

二十一世纪将是神经科学的世纪。随着科学技术的不断发展和应用，神经外科也在迅速地发展。在国际交往越来越频繁的今天，增加与国外同行的交流，提高我国神经外科的水平，是时代的要求，也是发展的需要。欣闻国际权威著作《施米德克·斯威特神经外科手术学》的中文版即将出版，我十分高兴，特作序以介绍。

现在，神经外科学已经发展到了一个崭新阶段。一方面，神经外科学研究的范畴不断扩大，除了在传统领域发展外，在一些交叉学科也进行了广泛深入的研究，发展了一些新理论和新技术。另一方面，大量已经成熟的技术只能在少数大型医院得到应用，亟待推广。正是在这种情况下，王任直教授等翻译了《施米德克·斯威特神经外科手术学》。该书由 27 个国家的著名神经外科专家联合撰写，全面地介绍了神经外科领域各种疾病的诊断和治疗，反映了国际上神经外科的最新研究成果和发展现状。尤其是对神经外科手术适应证和操作技术的阐述，深入精辟、图文并茂，资料翔实，并密切结合临床实践，充分介绍了每位专家非常丰富的临床经验。

作为一名从事医学教育和临床研究 50 多年的神经外科医师，我认为这是一部值得推荐的神经外科高级参考书，相信它将会对国内广大神经外科及相关科室医师的临床医疗、教学和科研工作都有指导作用，成为他们的良师益友。最后我谨对本书的著者和译者致以深切的谢意，希望它能对我国神经外科的发展发挥更大作用。

中国工程院院士
中国医学科学院神经外科研究所所长
北京天坛医院名誉院长



2003 年 3 月

译者前言

受人民卫生出版社之托，我们接受了由美国 Henry H. Schmidek 教授主编的《Schmidek & Sweet Operative Neurosurgical Techniques: Indications, Methods, and Results》一书的翻译任务。由于这是一部神经外科领域的权威性著作，在国际上有较大影响，我们深感使命光荣，责任重大。为了确保译著能够反映出原著的水平，我们精心组织了全国 30 余所高等医学院校及医院的 140 多位既熟悉本专业又精通英语的神经外科、骨科、耳鼻喉科及麻醉科的教授和中青年医师共同翻译此书。经过一年半的艰辛努力，终于完成了这一工作，感到十分欣慰。忠实于原著、科学准确、保证译著质量水平是我们翻译者的共同行动准则。

本书(第四版)是由 27 个国家的著名神经外科专家，包括我国著名神经外科王忠诚院士等联合编著的一部介绍神经外科手术技术的参考书，这些专家学者结合自己几十年的临床经验、教学及研究成果，参考了国际最新资料 and 大量文献编著了此书。全书共有 28 篇、188 章，各篇之间具有独立性和特殊性，但每篇中各章又有系统性和连贯性，不仅可以为读者提供参考，也让读者有思考和分析的空间。各章内容有所侧重，风格各异，反映了内容的丰富多彩和百家争鸣的学风；内容广泛、精辟，反映了当今世界神经外科领域最新的研究成果和水平，这些足以表明《施米德克·斯威特神经外科手术学》是国际神经外科学界的一部巨著，希望本书能够成为读者的良师益友。

本书是一部神经外科学高级参考书，读者对象主要为医院和研究机构的各级神经外科、骨科、耳鼻喉科、头颈外科医师和研究生，对其他各相关科室临床医师也有很好的指导意义。我们确实感到这是一部难得的、不可不读的权威著作。

参加本书翻译工作的教授和青年医师们，在日常医疗、教学、科研工作十分繁忙的情况下，不辞辛苦，夜以继日，倾注了大量心血，付出了巨大的努力，才使得本书顺利完稿。人民卫生出版社的领导和编辑经常给予指导和帮助，保证了本书的及时出版。在此，谨对以上各位译者和编辑们为本译著出版作出的努力表示衷心的感谢。此外，我还要感谢我的同事杨义和陶蔚医师，他们为本书的插图、索引及全书的整理作了大量的工作。

我还要特别感谢王忠诚院士在百忙当中为本书作序，很多神经外科前辈们也对本译著的出版给予了大力支持，在此一并表示衷心感谢。

对于翻译如此巨大专著，我们由于经验不足和时间仓促，加之水平有限，难免在表达上有不足和欠妥之处，敬请广大读者不吝指正，在此致谢。

王任直

2003 年 3 月

作者前言

在 1977 年, Sweet 医生和我合编了一本《现代神经外科手术技术》,它不仅反映了我们对临床重要问题的关注,也反映了当代神经外科技术的核心问题。在此后的几年内,我们共编写了三版《施米德克·斯威特神经外科手术学》,第一版在 1982 年,第二版在 1988 年,第三版在 1995 年。这些版本在全世界的广泛销售及其影响大大鼓舞了出版商-W. B. Saunders。虽然 Sweet 医生在 1996 年退休了,为了纪念这些,以后的版本均沿袭了“Schmidek & Sweet”这个名称。

在这些版本中,我们希望为临床工作的神经外科医生在手术室处理脑、脊髓或周围神经疾病方面提供切实有用的信息。外科医生在诊断和治疗中,并不需要一本百科全书,而是需要一本能提供针对该临床问题的讨论和治疗经验的书籍。在许多情况下,针对一个特定的临床问题,可能有各种手术和非手术治疗方法。本书的撰稿人详细描述了各种方法,在他们的论述中,虽然有重叠的部分,但是其侧重点不同。在目前繁忙的医疗工作中,最重要的是在制定治疗计划时,有单一、快速的信息,这也是我在编写本书时所想要提供的。

本书的第四版继续反映了神经外科技术的发展和变革,它由 1977 年的 517 页、33 章变为 2000 年的 2200 页、188 章和 275 位撰稿人。根据出版商的要求,为了控制版面,第四版的内容没有超出第三版。本书也反映了世界各地对神经外科发展的贡献。大约 40% 的章节来自美国以外的 26 个不同国家的医疗中心。本书是首批国际性联合撰写的外科书籍之一。

在 1973 年 5 月,一位同行在《新英格兰医学杂志》(New England Journal of Medicine)中的一篇文章写道:“神经外科已经停止发展。虽然,它不至于像恐龙一样灭绝,但是,它将变得毫无生机。曾经渗透到神经外科中的希望和刺激很快屈服于现状。”此后的四分之一世纪与该观点并不相符,出现了令人震惊的计算机扫描、磁共振成像、影像导航手术、内镜神经外科、血管内介入技术、治疗内科难治性癫痫的技术以及为脊髓疾病手术治疗带来革新的技术。上述每一领域均在本书中有所论述。另外,增加了脑外伤术前处理、动脉瘤蛛网膜下腔出血和动脉瘤蛛网膜下腔出血的麻醉等几个章节,还增加了颅骨成形术、脑积水、低分化和复发胶质瘤的处理、颈动脉和基底动脉的解剖、颅内和髓内感染的处理以及脊神经根损伤的处理等新的章节。其余的章节均进行了详细的修改,并扩充和更新了内容。

在此,我对所有撰稿人和 W. B. Saunders 的工作人员的努力表示衷心的感谢,特别感谢 Richard Zorab 和 Cathy Carroll,他们为协调撰稿人来参与完成本书的编写作出了努力。

Henry H. Schmidek, MD

译者 (以汉语拼音为序)

鲍圣德	北京大学 第一医院	姜金利	解放军总医院
曹克利	中国协和医科大学 北京协和医院	李光民	吉林省 人民医院
曹卫东	第四军医大学 西京医院	李桂林	中国协和医科大学 北京协和医院
陈山林	首都医科大学 积水潭医院	李文良	天津市 肿瘤医院
陈晓巍	中国协和医科大学 北京协和医院	李 侠	第四军医大学 西京医院
陈志刚	第二军医大学 长征医院	李永宁	中国协和医科大学 北京协和医院
初 明	哈尔滨医科大学 附属第一医院	李 勇	中国协和医科大学 北京协和医院
邸 飞	首都医科大学 天坛医院	李勇杰	首都医科大学 宣武医院
董 齐	哈尔滨医科大学 附属第一医院	李玉金	山东省诸城市 人民医院
窦万臣	中国协和医科大学 北京协和医院	李豫鲁	中国协和医科大学 北京协和医院
杜建新	首都医科大学 宣武医院	李云林	卫生部 北京医院
费 舟	第四军医大学 西京医院	连 伟	中国协和医科大学 北京协和医院
冯 华	第三军医大学 西南医院	凌 锋	首都医科大学 宣武医院
冯慧敏	卫生部 教材办公室	刘阿力	首都医科大学 天坛医院
傅洛安	第四军医大学 西京医院	刘佰运	首都医科大学 天坛医院
高大宽	第四军医大学 西京医院	刘洪波	中国协和医科大学 北京协和医院
高国一	第二军医大学 长征医院	刘力强	河北医科大学 附属第二医院
高之宪	首都医科大学 天坛医院	刘伟明	首都医科大学 天坛医院
高志强	中国协和医科大学 北京协和医院	刘 稳	中国协和医科大学 北京协和医院
葛平江	中国协和医科大学 北京协和医院	柳建明	吉林省 人民医院
郭 京	卫生部 中日友好医院	鲁质成	吉林大学 附属第一医院
韩劲松	北京市 普仁医院	栾国明	卫生部 北京医院
韩利江	首都医科大学 天坛医院	罗 祺	吉林大学 附属第一医院
贺晓生	第四军医大学 西京医院	罗毅男	吉林大学 附属第一医院
胡恩喜	哈尔滨医科大学 附属第一医院	马 凯	首都医科大学 宣武医院
胡永生	首都医科大学 宣武医院	马文斌	中国协和医科大学 北京协和医院
胡志强	哈尔滨医科大学 附属第一医院	马晓东	解放军总医院
扈玉华	河北医科大学 附属第二医院	买买提	首都医科大学 宣武医院
黄建军	山西省大同煤矿集团公司 第一职工 医院	毛 颖	复旦大学 华山医院
		蒙 和	首都医科大学 天坛医院
黄宇光	中国协和医科大学 北京协和医院	钱 军	中国协和医科大学 北京协和医院
黄正松	中山大学 附属第一医院	乔广宇	解放军总医院
贾桂军	首都医科大学 天坛医院	屈 延	第四军医大学 西京医院
贾同乐	河北省保定市 第一中心医院	单永治	首都医科大学 宣武医院
江基尧	上海第二医科大学 仁济医院	石长青	首都医科大学 宣武医院
江 涛	首都医科大学 天坛医院	石文建	河北省唐山市 人民医院

- | | | | |
|-----|------------------|-----|-----------------|
| 石祥恩 | 北京大学 人民医院 | 杨忠旭 | 首都医科大学 天坛医院 |
| 孙国柱 | 河北医科大学 附属第二医院 | 杨 众 | 中国协和医科大学 北京协和医院 |
| 孙晓枫 | 河北医科大学 附属第二医院 | 姚 鑫 | 天津市 环湖医院 |
| 孙振荣 | 首都医科大学 天坛医院 | 姚 勇 | 中国协和医科大学 北京协和医院 |
| 孙正辉 | 解放军总医院 | 尹 剑 | 中国协和医科大学 北京协和医院 |
| 谭 可 | 北京大学 第一医院 | 尹振明 | 中国协和医科大学 北京协和医院 |
| 陶 蔚 | 中国协和医科大学 北京协和医院 | 于 斌 | 中国协和医科大学 北京协和医院 |
| 田士强 | 中国协和医科大学 北京协和医院 | 于春江 | 首都医科大学 天坛医院 |
| 田 文 | 首都医科大学 积水潭医院 | 于加省 | 首都医科大学 宣武医院 |
| 田 野 | 中国协和医科大学 北京协和医院 | 余新光 | 解放军总医院 |
| 田增民 | 海军总医院 | 张 波 | 中国协和医科大学 北京协和医院 |
| 佟怀宇 | 解放军总医院 | 张宏义 | 河北省唐山市 工人医院 |
| 王 超 | 哈尔滨医科大学 附属第一医院 | 张建国 | 首都医科大学 天坛医院 |
| 王 辉 | 中国协和医科大学 北京协和医院 | 张剑宁 | 第四军医大学 西京医院 |
| 王 驹 | 第二军医大学 长征医院 | 张静波 | 首都医科大学 天坛医院 |
| 王立根 | 中国协和医科大学 北京协和医院 | 张俊廷 | 首都医科大学 天坛医院 |
| 王任直 | 中国协和医科大学 北京协和医院 | 张 楠 | 北京煤炭部总医院 |
| 王晓巍 | 中国协和医科大学 北京协和医院 | 张庆俊 | 河北医科大学 附属第二医院 |
| 王以朋 | 中国协和医科大学 北京协和医院 | 张 荣 | 复旦大学 华山医院 |
| 吴 浩 | 首都医科大学 宣武医院 | 张世明 | 苏州大学 附属第一医院 |
| 吴胜田 | 首都医科大学 天坛医院 | 张亚卓 | 首都医科大学 天坛医院 |
| 幸 兵 | 中国协和医科大学 北京协和医院 | 张延夫 | 北京大学 人民医院 |
| 熊 先 | 北京市 普仁医院 | 张永力 | 北京大学 人民医院 |
| 徐德生 | 天津医科大学 附属第二医院 | 张宇清 | 首都医科大学 宣武医院 |
| 徐建望 | 首都医科大学 宣武医院 | 张玉琪 | 首都医科大学 天坛医院 |
| 徐永革 | 海军总医院 | 张 忠 | 首都医科大学 天坛医院 |
| 许百男 | 解放军总医院 | 章 翔 | 第四军医大学 西京医院 |
| 许志勤 | 中国协和医科大学 北京协和医院 | 仇学军 | 吉林省通化市 人民医院 |
| 闫晨光 | 山西省忻州市 人民医院 | 赵国光 | 首都医科大学 宣武医院 |
| 闫长祥 | 首都医科大学 天坛医院 | 赵元立 | 首都医科大学 天坛医院 |
| 杨 波 | 中国协和医科大学 北京协和医院 | 赵宗茂 | 河北医科大学 附属第二医院 |
| 杨 华 | 贵阳医学院 附属第一医院 | 甄海宁 | 第四军医大学 西京医院 |
| 杨继金 | 山东省枣庄矿业集团公司 中心医院 | 周东学 | 海军总医院 |
| 杨家斐 | 解放军总医院 | 周 建 | 北京市 普仁医院 |
| 杨 军 | 首都医科大学 天坛医院 | 周良辅 | 复旦大学 华山医院 |
| 杨孔宾 | 哈尔滨医科大学 附属第一医院 | 朱宏伟 | 首都医科大学 宣武医院 |
| 杨 义 | 中国协和医科大学 北京协和医院 | 朱荣江 | 广东省湛江市 中心人民医院 |

参编人员

DIANA ABSON-KRAEMER, M.D.

Department of Neurosurgery, Swedish Medical Center, Seattle, Washington

Diagnostic Techniques in Surgical Management of Epilepsy: Strip Electrodes, Grids, and Depth Electrodes

CHRIS B. T. ADAMS, M.Chir., F.R.C.S.

Lecturer in Neurosurgery, University of Oxford; Consultant Neurosurgeon, Radcliffe Infirmary, Oxford, United Kingdom

Transcranial Surgery for Pituitary Macroadenomas; Management of Craniopharyngiomas: Additional Comment

MAHMOUD AL-YAMANY

Academic and Educational Organizer and Acting Head, Department of Neurosurgery, Riyadh Medical Complex, Riyadh, Saudi Arabia

Surgical Management of Cranial Dural Arteriovenous Fistulas

JEAN-YVES ALNOT

Professor and Surgeon, Groupe Hospitalier Bichat—Claude Bernard; Chief of Department of Orthopedics—Traumatology, Paris, France

Surgical Management of Lesions of the Adult Brachial Plexus

MELVIN G. ALPER, M.D.

Attending Physician, Washington Hospital Center, Washington, D.C.

Anterior and Lateral Approaches to the Orbit and Orbital Apex

ARUN PAUL AMAR, M.D.

Clinical Instructor, Department of Neurosurgery, University of Southern California School of Medicine, Los Angeles, California

Surgical Management of Growth Hormone-Secreting and Prolactin-Secreting Pituitary Adenomas; Transcallosal Approach to the Third Ventricle

SEPIDEH AMIN-HANJANI, M.D.

Clinical Fellow in Surgery, Harvard Medical School; Resident in Neurosurgery, Massachusetts General Hospital, Boston, Massachusetts

Surgical Management of Cavernous Malformations of the Nervous System

OLEH M. ANTONYSHYN, M.D., F.R.C.S.C.

Associate Professor, University of Toronto Faculty of Medicine; Chief of Plastic Surgery, Division of Plastic Surgery, Department of Surgery, Sunnybrook Health Science Centre, Toronto, Ontario, Canada

Cranioplasty: Indications, Techniques, and Results

RONALD I. APFELBAUM, M.D.

Professor of Neurosurgery, University of Utah School of Medicine; Neurosurgeon, University of Utah Hospital; Primary Children's Medical Center, Salt Lake VA Medical Center, Salt Lake City, Utah

Neurovascular Decompression in Surgical Disorders of Cranial Nerves V, VII, IX, and X

MICHAEL L. J. APUZZO, M.D.

Edwin M. Todd/Trent H. Wells, Jr., Professor of Neurological Surgery and Professor of Radiation Oncology, Biology, and Physics, University of Southern California School of Medicine, Los Angeles, California

Transcallosal Approach to the Third Ventricle

MARK ARGINTEANU, M.D.

Clinical Assistant Attending Physician, Mount Sinai—New York University Medical Center; Associate Attending Physician, Mt. Sinai Hospital, New York, New York

Surgical Management of Primary and Metastatic Tumors of the Spine

PAUL M. ARNOLD, M.D.

Associate Professor of Surgery (Neurosurgery), University of Kansas Medical School, Kansas City, Kansas

Surgical Management of Spinal Infections

ANDREW W. ARTENSTEIN, M.D., F.A.C.P.

Clinical Assistant Professor of Medicine, Brown University School of Medicine, Providence, Rhode Island; Consultant, Infectious Diseases, Hawthorn Medical Associates, New Bedford, Massachusetts

Suppurative Intracranial Infections

ADAM S. ARTHUR, M.D.

Department of Neurosurgery, University of Utah School of Medicine and University of Utah Hospital; Primary Children's Medical Center, Salt Lake VA Medical Center, Salt Lake City, Utah

Neurovascular Decompression in Surgical Disorders of Cranial Nerves V, VII, IX, and X

TAKAO ASANO, M.D., D.M.Sc.

Department of Neurosurgery, Saitama Medical Center/
School, Kawagoe, Saitama, Japan
*Surgical Management of Ossification of the Posterior
Longitudinal Ligament*

PETER WOLF ASCHER, M.D.

Professor and Chairman of the Neurosurgical Department
and Surgical Clinics, University of Rostock, Rostock, Ger-
many
Percutaneous Lumbar Disk Excision

ERIK-OLOF BACKLUND, M.D., Ph.D.

Emeritus Professor of Neurosurgery, Department of Clini-
cal Neurosciences, University Hospital, Linköping, Sweden
*Stereotactic Radiosurgery for Pituitary Adenomas and
Craniopharyngiomas*

ROY A. E. BAKAY, M.D.

Department of Neurological Surgery, Emory University
School of Medicine and Hospital; Crawford Long Hospital;
Grady Memorial Hospital; VA Medical Center, Atlanta,
Georgia
*Transplantation in the Human Nervous System in
Parkinson's Disease*

JONATHAN J. BASKIN, M.D.

Neurosurgical Group of Chatham, Chatham, New Jersey
*Surgical Techniques for the Stabilization of the Subaxial
Cervical Spine*

ARMANDO BASSO, M.D., Ph.D.

Professor and Chairman, Neurosurgical Department, Uni-
versity of Buenos Aires School of Medicine and Hospital,
Buenos Aires, Argentina
*Transcranial Approach to Lesions of the Orbit; Sphenoid
Ridge Meningiomas*

JAMES S. BATH, B.S.

Radionics, Inc., Burlington, Massachusetts
Image-Guided Neurosurgery

ULRICH BATZDORF, M.D.

Professor, Department of Neurosurgery, UCLA Medical
Center, Los Angeles; Medical Staff, Santa Monica UCLA
Medical Center, Santa Monica, California
*Microsurgery of Syringomyelia and Syringomyelic Cord
Syndrome*

BERNHARD L. BAUER, M.D.

Professor Emeritus, Nordstadt-Krankenhaus, Department of
Neurosurgery, Hannover, Germany
*Surgical Management of Arachnoid, Suprasellar, and
Rathke's Cleft Cysts*

JANET W. BAY, M.D.

Department of Surgery, Riverside Methodist Hospitals; Co-
lumbus Children's Hospital; Mt. Carmel Medical Center;
Doctors Hospital West; University Hospital, Columbus,
Ohio
Surgery of the Sympathetic Nervous System

P. BEAUCHESNE, M.D.

Medical Doctor, Service de Neurochirurgie, Hôpital Belle-
vue, Saint Etienne, France
Lumboperitoneal Shunting

CARTER E. BECK, M.D.

Chief Resident, Department of Neurosurgery, Stanford Uni-
versity Medical Center, Stanford, California
*Surgical Approaches to the Cervicothoracic Junction;
Surgical Management of Lumbar Spinal Stenosis*

DONALD P. BECKER, M.D.

Professor and Chairman, Division of Neurosurgery, School
of Medicine, University of California, Los Angeles; UCLA
Health Sciences Center, Los Angeles, California
*Surgical Management of Severe Closed Head Injury in
Adults*

JOSHUA BEDERSON, M.D.

Associate Professor of Neurosurgery, Mount Sinai School
of Medicine, New York, New York
*Surgical Management of Spinal Cord Tumors and
Arteriovenous Malformations*

A. L. BENABID, M.D., Ph.D.

J. Fourier University; Hospital of Grenoble, Grenoble,
France
Multilobar Resections for the Control of Epilepsy

VALLO BENJAMIN, M.D.

Professor of Neurosurgery, New York University School of
Medicine; Attending in Neurosurgery, Institute of Neurol-
ogy-Neurosurgery, Beth Israel North Hospital, New York,
New York
*Surgical Management of Tuberculum Sellae and Sphenoid
Ridge Meningiomas*

RAVI BHATIA, M.S., M.Ch.

Professor of Neurosurgery, Department of Neurosurgery,
Indraprastha Apollo Hospital, New Delhi, India
*Surgical Management of Tuberculous Infections of the
Nervous System*

ROLFE BIRCH, M.Chir., F.R.C.S.

Honorary Visiting Professor in Neurology, Royal London
Hospital; Honorary Surgeon, National Hospital for Nervous
Diseases; Hospitals for Sick Children and Royal Postgradu-
ate Medical School, London; Consultant Orthopaedic Sur-
geon, Royal National Orthopaedic Hospital, Middlesex,
United Kingdom
Surgical Management of Spinal Nerve Root Injuries

PERRY BLACK, M.D.

Professor of Neurosurgery, MCP Hahnemann University,
Philadelphia, Pennsylvania
*Surgical and Radiotherapeutic Management of Brain
Metastasis*

NIKOLAS BLEVINS, M.D.

Assistant Professor, Tufts University School of Medicine,
Boston, Massachusetts
Surgical Management of Glomus Jugulare Tumors

GÖRAN C. BLOMSTEDT, M.D., Ph.D.

Assistant Professor, Helsinki University; Consultant, Helsinki University Central Hospital, Helsinki, Finland
Considerations of Infections After Craniotomy

WARREN BOLING, Jr., M.D., F.R.C.S.(C.)

Neurosurgeon, Montreal Neurological Hospital, Montreal, Canada
Stereotactic Intracranial Recording
(Stereoelectroencephalography)

SVEND ERIK BØRGESSEN, M.D.

Associate Professor and Chief Surgeon, University Clinic of Neurosurgery, The Neuroscience Center, University of Copenhagen and Rigshospitalet, Copenhagen, Denmark
Translabyrinthine Approaches to Vestibular Schwannomas

JAMES M. BORTHWICK, B.Sc., M.B., Ch.B., F.R.C.A.

Honorary Clinical Senior Lecturer, University of Glasgow; Consultant Anaesthetist, Institute of Neurological Sciences, Southern General Hospital, Glasgow, Scotland
Surgical Management of the Rheumatoid Cervical Spine

ROBERT E. BREEZE, M.D.

Division of Neurosurgery and Neural Transplantation Program for Parkinson's Disease, University of Colorado School of Medicine; Division of Neurosurgery, Denver General Hospital; St. Anthony Hospital Central; The Children's Hospital; University Hospital; VA Medical Center, Denver, Colorado
Transplantation in the Human Nervous System in Parkinson's Disease

ALBINO BRICOLO, M.D.

Professor of Neurosurgery, University of Verona Medical School; Chairman, Section of Neurosurgery, Department of Neurological Sciences and Vision, University Hospital of Verona, Verona, Italy
Petroclival Meningiomas

GAVIN W. BRITZ, M.D.

Acting Instructor in Neurological Surgery, Department of Neurological Surgery, University of Washington, Seattle, Washington
Craniofacial Resection for Anterior Skull Base Tumors

JASON A. BRODKEY, M.D.

Neurosurgeon, Michigan Brain and Spine Institute, Ann Arbor, Michigan
Transtemporal Approaches to the Posterior Cranial Fossa

JEFFREY A. BROWN, M.D.

Medical College of Ohio, Toledo, Ohio
Percutaneous Trigeminal Nerve Compression

JEFFREY N. BRUCE, M.D.

Associate Professor of Neurological Surgery, College of Physicians and Surgeons of Columbia University; Associate Attending in Neurological Surgery, New York Presbyterian Hospital, New York, New York
Surgical Management of Intraorbital Tumors;
Supracerebellar Approach to Pineal Region Neoplasms

FRANZ XAVER BRUNNER, M.D., D.D.S.

Professor and Director, Department of Otorhinolaryngology, Zentralklinikum, Augsburg, Germany
Surgical Management of Trauma Involving the Skull Base and Paranasal Sinuses

JACQUES BRUNON, M.D.

Professor of Neurosurgery, University of Saint Etienne; Head of the Neurosurgical Department, University Hospital (Bellevue), Saint Etienne, France
Lumboperitoneal Shunting

JOHN C. M. BRUST, M.D.

Professor of Clinical Neurology, College of Physicians and Surgeons of Columbia University; Director of Neurology, Harlem Hospital Center, New York, New York
Surgical Management of Intracranial Aneurysms Caused by Infection

MICHAEL BUCHFELDER, M.D.

Associate Professor, Department of Neurosurgery, University of Erlangen-Nürnberg, Erlangen, Germany
Transsphenoidal Microsurgery of Craniopharyngioma

JAMES A. BURNS, M.D.

Assistant Professor, Wright State University School of Medicine; Medical Director, Otolaryngology-Head and Neck Surgery, Wright-Patterson Air Force Base Medical Center, Dayton, Ohio
Transnasal Endoscopic Repair of Cranionasal Fistulas

RICHARD W. BYRNE, M.D.

Assistant Professor of Neurosurgery, Rush Medical College; Attending Neurosurgeon, Rush-Presbyterian Medical Center, Chicago, Illinois
Multiple Subpial Transection for Epilepsy

JACQUES CAEMAERT, M.D.

Professor, Department of Neurosurgery, University Hospital of Ghent, Ghent, Belgium
Endoscopic Neurosurgery

GIAMPAOLO CANTORE, M.D.

Professor of Neurosurgery and Chairman, Department of Neurological Sciences, State University of Rome Medical School, La Sapienza; Chief, Neurosurgical Service, Hospital Policlinico Umberto I, Rome, Italy
Surgical Management of Tumors of the Cervical Spine and Spinal Cord

PAOLA CAPPABIANCA, M.D.

Department of Systematic Pathology, Federico II University School of Medicine, Naples, Italy
Repair of the Sella Turcica After Transsphenoidal Surgery

JOHN CARBONE, M.D.

Assistant Professor of Surgery-Orthopaedics and Chief, Division of Spine Surgery, Johns Hopkins Bayview Medical Center and Johns Hopkins University School of Medicine; University of Maryland, R. Adam Crowley Shock Trauma, Baltimore, Maryland
Surgical Management of Injuries of the Cervical Spine and Spinal Cord

THOMAS P. CARLSTEDT, M.D., Ph.D.

Associate Professor, Karolinska Institute, Stockholm, Sweden; Senior Lecturer, University College of London, London, United Kingdom; Consultant Orthopaedic Surgeon, The Royal National Orthopaedic Hospital, Stanmore, United Kingdom

Surgical Management of Spinal Nerve Root Injuries

ANTONIO G. CARRIZO, M.D.

Assistant Professor of Neurosurgery, School of Medicine, Buenos Aires National University; Chief of the Neurosurgical Unit, Santa Lucia Hospital, Buenos Aires, Argentina

Transcranial Approach to Lesions of the Orbit; Sphenoid Ridge Meningiomas

BENJAMIN S. CARSON, M.D.

Professor and Director, Pediatric Neurosurgery, Johns Hopkins School of Medicine, Baltimore, Maryland

Surgical Management of Achondroplasia and Its Neurosurgical Complications

C. MICHAEL CAWLEY, M.D.

Professor, Emory University School of Medicine, Atlanta, Georgia

Surgical Management of Aneurysms and Fistulas of the Cavernous Sinus

CECIL GUANG-SHIUNG CHANG, M.D.

Associate Professor of Neurosurgery, Stanford University School of Medicine; Neurosurgeon, Stanford University Hospital, Palo Alto, California

Failed Microvascular Decompression for Trigeminal Neuralgia

PAUL H. CHAPMAN, M.D.

Neurosurgeon, Department of Neurological Surgery, Massachusetts General Hospital; Professor of Surgery, Harvard Medical School, Boston, Massachusetts

Surgical Management of Occult Spinal Dysraphism

E. THOMAS CHAPPELL, M.D.

Department of Surgery, Division of Neurosurgery, University of California, Davis, East Bay; Alameda County Medical Center, Oakland, California

Neurosurgical Management of HIV-Related Brain Lesions

DER-YANG CHO, M.D.

Associate Professor, Neurosurgery, and Chairman, Department of Neurosurgery, China Medical College Hospital, Taichung, Taiwan, China

Failed Microvascular Decompression for Trigeminal Neuralgia

PASQUALE CIAPPETTA, M.D.

Professor of Neurosurgery, University of Perugia; Chief, Neurosurgical Service, Hospital S. Maria, Terni, Italy

Surgical Management of Tumors of the Cervical Spine and Spinal Cord

JAMES C. COLLIAS, M.D.

Assistant Clinical Professor, University of Connecticut School of Medicine, Farmington; Honorary Staff, Department of Neurosurgery, Hartford Hospital, Hartford, Connecticut

Posterior Surgical Approaches in Cervical Disk Herniation and Spondylotic Myelopathy

SCHLOMO CONSTANTINI, M.D., M.Sc.

Professor of Neurosurgery, Tel-Aviv University; Chief, Division of Pediatric Neurosurgery, Dana Children's Hospital, Tel-Aviv, Israel

Surgical Management of Intramedullary Spinal Cord Tumors

G. REES COSGROVE, M.D., F.R.C.S.(C.)

Associate Professor of Surgery, Harvard Medical School; Associate Visiting Neurosurgeon, Massachusetts General Hospital, Boston, Massachusetts

Stereotactic Interstitial Radiosurgery in the Management of Brain Tumors; Cingulotomy for Intractable Psychiatric Illness

PAUL R. COSYNS, M.D.

Professor of Psychiatry, University of Antwerp, Faculty of Medicine; Head of Department of Psychiatry, University Hospital, Antwerp, Belgium

Cerebral Lesions for Psychiatric Disorders and Pain

WILLIAM T. COULDWELL, M.D., Ph.D.

Professor and Chairman, Department of Neurosurgery, New York Medical College, Valhalla, New York

Surgical Management of Growth Hormone-Secreting and Prolactin-Secreting Pituitary Adenomas

T. FORCHT DAGI, M.D., M.P.H., F.A.C.S.

Department of Surgery, The Uniformed Services University of the Health Sciences; Department of Neurosurgery, St. Joseph's Hospital; Scottish Rite Children's Medical Center; Northside Hospital, Atlanta, Georgia

Surgical Management of Penetrating Missile Injuries of the Head; Management of Cerebrospinal Fluid Leaks; Vascular Tumors of the Spine

RONAN M. DARDIS, M.B., M.Med.Sc., F.R.S.C.I.

Specialist Registrar in Neurosurgery, King's College Hospital, London, United Kingdom

Carbon Fiber Implants in Anterior Cervical Disk Surgery

ARTHUR L. DAY, M.D.

Professor, James and Newton Eblen Eminent Scholar in Cerebrovascular Surgery, University of Florida, Gainesville, Florida

Surgical Management of Aneurysms and Fistulas of the Cavernous Sinus

J. DIAZ DAY, M.D.

Clinical Assistant Professor, Department of Neurological Surgery, University of Southern California; Director, Neurological Surgery, Hoase Ear Clinic, Los Angeles, California

Surgical Management of Tumors Involving the Cavernous Sinus; Surgical Management of Vertebro-Posterior-Inferior Cerebellar Artery Aneurysms

ENRICO de DIVITIIS, M.D.

Department of Systematic Pathology, Federico II University School of Medicine, Naples, Italy

Repair of the Sella Turcica After Transsphenoidal Surgery

PATRICK J. DeROME, M.D.

University of Paris VIII; Chief of Neurosurgery (Emeritus),
Hospital Foch, Suresnes, France

*Transbasal Approach to Tumors Invading the Skull Base;
Surgical Management of Endocrinologically Silent
Pituitary Tumors*

ROBERT DERUTY, M.D.

Professor, School of Medicine; Head of Department of
Neurosurgery, Neurological Hospital, Lyon, France

*Surgical Management of Cerebral Arteriovenous
Malformations*

ANAND P. DESAI, M.D.

Professor of Neuropathology and Head, Department of
Pathology, Seth G. S. Medical College; Professor of Neuro-
pathology, K. E. M. Hospital, Parel, Mumbai, Maharashtra
State, India

*Surgical Management of Fungal Infections of the Nervous
System*

JACQUEZ CHARL de VILLIERS, M.D.,

F.R.C.S. (Eng.), F.R.C.S. (Edin.)

Emeritus Professor of Neurosurgery, Department of Neuro-
surgery, Groote Schuur Hospital, University of Cape Town,
Cape Town, South Africa

*Surgical Management of Arteriovenous Malformations of
the Scalp*

P. C. TAYLOR DICKINSON, M.D.

Assistant Clinical Professor of Medicine, Columbia Uni-
versity College of Physicians and Surgeons, New York;
Attending Physician in Medicine, Nyack Hospital, Nyack,
New York

*Surgical Management of Intracranial Aneurysms Caused
by Infection*

CURTIS A. DICKMAN, M.D.

Associate Chief, Spine Section, and Director, Spinal Re-
search, Division of Neurological Surgery, Barrow Neuro-
logical Institute, Phoenix, Arizona

*Surgical Techniques for Stabilization of the Subaxial
Cervical Spine*

JÜRGEN DIETRICH, M.D., Ph.D.

Department of Radiology, University of Leipzig, Leipzig,
Germany

*Open Magnetic Resonance Imaging-Guided Neurosurgery
Focusing on Intracranial Gliomas*

DONALD D. DIETZE, Jr., M.D.

Assistant Professor of Neurosurgery, Tulane University,
Department of Neurosurgery; Tulane Hospital and Clinics;
Medical Center of Louisiana-Charity Hospital; Veterans
Administration Medical Center, New Orleans, Louisiana

*Primary Reconstruction for Spinal Infections; Surgical
Approaches to the Cervicothoracic Junction*

CONCEZIO DI ROCCO, M.D.

Professor of Pediatric Neurosurgery, Catholic University
Medical School; Head of Pediatric Neurosurgery, Policlin-
ico Gemelli, Rome, Italy

*Surgical Management of Craniosynostosis and
Craniofacial Deformities*

ZAYNE DOMINGO, M.B.Ch.B. (Natal),

M.Med. (U.C.T.), D.Phil. (Oxon.), F.C.S. (S.A.)

Specialist Neurosurgeon, Constantia Medi-clinic, Cape
Town, South Africa

*Surgical Management of Arteriovenous Malformations of
the Scalp*

NICHOLAS W. C. DORSCH, M.B.B.S., F.R.C.S.,

F.R.A.C.S.

Clinical Associate Professor, Department of Surgery, Uni-
versity of Sydney; Staff Neurosurgeon, Westmead Hospital,
Sydney, New South Wales, Australia

*Perioperative Care After an Aneurysmal Subarachnoid
Hemorrhage*

CHARLES G. DRAKE, M.D., F.A.C.S., F.R.C.S.(C.)

(deceased)

Division of Neurosurgery, University of Western Ontario
Faculty of Medicine and Hospital, London, Ontario, Can-
ada

*Surgical Management of Terminal Basilar Artery and
Posterior Cerebral Artery Aneurysms*

JAMES M. DRAKE, M.B., B.Ch., F.R.C.S.C.

Associate Professor, University of Toronto; Staff Neurosur-
geon, Hospital for Sick Children, Toronto, Ontario, Canada

*Current Systems for Cerebrospinal Fluid Shunting and
Management of Pediatric Hydrocephalus: Endoscopic and
Image-Guided Surgery in Hydrocephalus*

THOMAS B. DUCKER, M.D.

Professor of Neurosurgery, Johns Hopkins University
School of Medicine and Hospital; University of Maryland,
Baltimore, Maryland

Circumferential Spinal Fusion (Cervical)

CHRISTOPHER DUMA, M.D.

Medical Director, HOAG/UCI Gamma Knife Center; Di-
rector, Movement Disorder Clinic, Hoag Memorial Hospi-
tal Presbyterian, Newport Beach, California

Sphenoid Ridge Meningiomas

JOHN A. DUNCAN III, M.D., Ph.D.

Assistant Professor, Department of Clinical Neurosciences,
Program in Neurosurgery, and Department of Pediatrics,
Brown University School of Medicine; Chief, Pediatric
Neurosurgery, Rhode Island Hospital/Hasbro Children's
Hospital, Providence, Rhode Island

Surgical Management of Hydrocephalus in Adults

STEWART B. DUNSKER, M.D.

Department of Neurosurgery, University of Cincinnati Col-
lege of Medicine; Mayfield Neurological Institute, Cincin-
nati, Ohio

Surgical Management of Thoracic Disk Herniations

ROBERT DUTHEL, M.D.

Adjunct Professor, University of St. Etienne; Hospital Prac-
titioner, Hôpital Bellevue, Neurosurgical Service, St.
Etienne, France

Lumboperitoneal Shunting

W. JEFFREY ELIAS, M.D.

Resident Neurosurgeon, University of Virginia, Charlottesville, Virginia

Transsphenoidal Approaches to Lesions of the Sella

FRED J. EPSTEIN, M.D., F.A.C.S.

Professor, Albert Einstein College of Medicine; Chief of Pediatric Neurosurgery and Director, Neurosurgery, Institute of Neurology and Neurosurgery, Beth Israel Medical Center, New York, New York

Surgical Management of Intramedullary Spinal Cord Tumors

MEL H. EPSTEIN, M.D.

Professor and Co-Chairman, Department of Clinical Neurosciences, Brown University School of Medicine; Neurosurgeon-in-Chief, Rhode Island Hospital, Providence, Rhode Island

*Surgical Management of Hydrocephalus in Adults;
Surgical Management of Segmental Spinal Instability*

NANCY E. EPSTEIN, M.D., F.A.C.S., F.I.C.S.

Associate Clinical Professor of Neurosurgery, Cornell University Medical College, New York; Chief, Division of Neurosurgery, North Shore University Hospital, Manhasset, New York

Surgical Management of Far Lateral Lumbar Disks

CALVIN B. ERNST, M.D.

Clinical Professor of Surgery, University of Michigan Medical School, Ann Arbor, Michigan

Surgical Exposure of the Distal Internal Carotid Artery

R. FRANCISCO ESCOBEDO, M.D.

Professor of Neurology and Neurosurgery, School of Medicine, National University; Chairman of Clinical Research Division, National Institute of Neurology and Neurosurgery, Mexico City, Mexico

Neurosurgical Aspects of Neurocysticercosis

RUDOLF FAHLBUSCH, M.D.

Chairman, Department of Neurosurgery, University of Erlangen-Nürnberg, Erlangen, Germany

Transsphenoidal Microsurgery for Craniopharyngioma

MAHMOOD FAZL, M.D., F.R.C.S.C.

Assistant Professor, University of Toronto; Attending Neurosurgeon, Division of Neurosurgery, Department of Surgery, Sunnybrook Health Science Centre, Toronto, Ontario, Canada

Cranioplasty: Indications, Techniques, and Results

RICHARD G. FESSLER, M.D., Ph.D.

Dunspaugh-Dalton Professor of Brain and Spinal Surgery, Department of Neurological Surgery, University of Florida Brain Institute; Shands Hospital of the University of Florida; Veterans Administration Medical Center, Gainesville, Florida

Primary Reconstruction for Spinal Infections; Surgical Approaches to the Cervicothoracic Junction

BERNARD E. FINNISON, M.D., F.A.C.S.

Emeritus Director, Low Back Pain Center; Former Chief of Neurosurgery, Crozer-Chester Medical Center, Upland, Pennsylvania

Lumbar Disk Excision

NORMAN D. FISHER-JEFFES, M.B.Ch.B., F.C.S. (S.A.)

Senior Specialist, Department of Neurosurgery, University of Cape Town; Specialist Neurosurgeon, Panorama Medical Clinic, Cape Town, South Africa

Surgical Management of Arteriovenous Malformations of the Scalp

KEVIN T. FOLEY, M.D.

Director, Complex Spine Service, Semmes-Murphey Clinic; Medical Director, Medical Education and Research Institute; Medical Director, Image Guided Surgery Research Center, Memphis, Tennessee; Clinical Assistant Professor of Surgery, Uniformed Services University of the Health Sciences, Bethesda, Maryland; Associate Professor of Neurosurgery and Biomedical Engineering, University of Tennessee; Attending Physician at Baptist Memorial Hospital, Bowld Hospital, Regional Medical Center, and Methodist Hospitals of Memphis, Memphis, Tennessee

Microendoscopic Discectomy

ROBERT D. FOSTER, M.D.

Plastic Surgery Fellow, Division of Plastic Surgery, University of California at San Francisco and San Francisco General Hospital, San Francisco, California

Cranioplasty: Indications, Techniques, and Results

M. J. FOTSO, M.D.

Medical Doctor, Service de Neurochirurgie, Hôpital Bellevue, Saint Etienne, France

Lumboperitoneal Shunting

RICHARD S. FOX, M.D.

Assistant Director, Plastic and Reconstructive Surgery, St. Luke's Hospital, New Bedford, Massachusetts

Surgical Repair of Major Defects of the Scalp and Skull

NATALE FRANCAVIGLIA

Neurosurgical Clinic, St. Martin Hospital, University of Genoa, Genoa, Italy

Anterolateral Techniques for Stabilization in the Thoracic Spine

S. FRANCIONE, M.D.

Department of Neurology, University of Genoa, Genoa, Italy

Multilobar Resections for the Control of Epilepsy

CLAIR FRANCOMANO, M.D.

Departments of Medicine and Pediatrics, The Johns Hopkins School of Medicine and Hospital, Baltimore; Medical Genetics Branch, National Center for Human Genome Research, National Institutes of Health, Bethesda, Maryland

Management of Achondroplasia and Its Neurosurgical Complications

CURT R. FREED

Division of Clinical Pharmacology and Toxicology, University of Colorado School of Medicine; Neurotransplantation Program for Parkinson's Disease, University of Colorado Hospital, Denver, Colorado

Transplantation in the Human Nervous System in Parkinson's Disease

STEPHEN R. FREIDBERG, M.D.

Department of Neurosurgery, Lahey Clinic, Burlington;
Courtesy Staff, New England Deaconess Hospital, Boston;
Atlanticare Medical Center, Lynn, Massachusetts

*Surgical Management of Cerebrospinal Fluid Leakage
After Spinal Surgery*

GERHARD FRIEHS, M.D.

Assistant Professor of Neurosurgery, Brown University
School of Medicine; Rhode Island Hospital, Providence,
Rhode Island

Surgical Management of Segmental Spinal Instability

TAKANORI FUKUSHIMA, M.D., D.M.Sc.

Department of Neurosurgery, Medical College of Pennsylvania and Allegheny General Hospital, Pittsburgh; University of Southern California, Los Angeles; Karolinska Institute, Stockholm, Sweden; Komonji Hospital, Kitakyushu; St. Mary's Hospital, Kurume; Nagasaki Morinoki Hospital, Nagasaki; Kagoshima Acsuchi Hospital, Kagoshima; Nishikasai Moriyama Hospital, Tokyo, Japan; Kaiser Permanente Hospital, Honolulu, Hawaii

Surgical Management of Tumors Involving the Cavernous Sinus

MICHAEL R. GAAB, M.D., Ph.D.

Professor and Chairman, Ernst Moritz Arndt University Medical School and Hospital, Department of Neurosurgery, Greifswald, Germany

Neuroendoscopic Approach to Intraventricular Tumors

STÉPHANE GAILLARD, M.D.

Assistant Neurosurgeon, AIHL-ACCA, University of Paris VIII; and Foch Hospital, Suresnes, France

*Transbasal Approach to Tumors Invading the Skull Base;
Surgical Management of Endocrinologically Silent
Pituitary Tumors*

GALE GARDNER, M.D.

Clinical Professor, Department of Otolaryngology, University of Tennessee College of Medicine, Memphis, Tennessee

Transtemporal Approaches to the Posterior Cranial Fossa; Surgical Management of Glomus Jugulare Tumors

BERNARD GEORGE, M.D.

Professor of Neurosurgery, University of Paris; Head, Department of Neurosurgery, Lariboisiere Hospital, Paris, France

Meningiomas of the Foramen Magnum

STEVEN L. GIANNOTTA, M.D.

Professor, Department of Neurological Surgery, University of Southern California, Los Angeles, California

*Surgical Management of Vertebral-Posterior-Inferior
Cerebellar Artery Aneurysms*

RENATO GIUFFRÈ, M.D.

Professor and Chairman, Institute of Neurosurgery, Department of Neurosciences, Tor Vergata University of Rome Medical School, Rome, Italy

Surgical Management of Low-Grade Gliomas

KEITH Y. C. GOH, M.B.B.S., F.R.C.S., F.H.K.A.M.

Clinical Tutor, National University of Singapore; Associate Consultant, Specialist Neurosurgeon, Department of Neurosurgery, Singapore General Hospital and Department of Pediatric Neurosurgery, KK Women's and Children's Hospital, Singapore

Surgical Management of Intramedullary Spinal Cord Tumors

ALFREDO GÓMEZ-AVIÑA, M.D.

Professor of Neurology and Neurosurgery, University of Guadalajara School of Medicine, Jalisco; Medical Division Director, National Institute of Neurology and Neurosurgery, Mexico City, Mexico

Neurosurgical Aspects of Neurocysticercosis

TODD A. GOODGLICK, M.D.

Assistant Clinical Professor, Georgetown University Department of Ophthalmology; Attending Physician, Washington Hospital Center; Washington, D.C.; Clinical Faculty, National Eye Institute, National Institutes of Health, Bethesda, Maryland

Anterior and Lateral Approaches to the Orbit and Orbital Apex

SERGEY K. GORELYSHEV, M.D.

Chief, Neurosurgeon and Pediatric Department, Burdenko Neurosurgical Institute, Moscow, Russia

Surgical Management of Diencephalic and Brain Stem Tumors

CHARLES W. GROSS, M.D.

Professor, University of Virginia School of Medicine, Charlottesville, Virginia; President, Triologic Society of the American Academy of Otolaryngology-Head and Neck Surgery, Alexandria, Virginia

Transnasal Endoscopic Repair of Cranionasal Fistulas

ROBERT G. GROSSMAN, M.D.

Professor and Chairman, Department of Neurosurgery, Baylor College of Medicine; Chief of Neurosurgery Service, The Methodist Hospital, Houston, Texas

Temporal Lobe Operations for Drug-Resistant Epilepsy

RICHARD W. GULLAN, M.B., B.Sc., M.R.C.P., F.R.C.S.

Consultant Neurosurgeon, King's College Hospital, London, United Kingdom

Carbon Fiber Implants in Anterior Cervical Disk Surgery

BJÖRN GUNTERBERG, M.D., Ph.D.

Associate Professor of Orthopaedic Surgery, Department of Surgical Sciences, Gothenburg University; Consultant, Department of Orthopaedics, Sahlgrenska University Hospital, Gothenburg, Sweden

Technique of High Sacral Amputation

BARTON L. GUTHRIE, M.D.

Associate Professor, University of Alabama at Birmingham, Birmingham, Alabama

Neurosurgical Management of HIV-Related Brain Lesions

JAN M. GYBELS, M.D., Ph.D.

Professor Emeritus of Neurosurgery, Department of Neurosciences and Psychiatry, University of Leuven School of Medicine and Hospital, Leuven, Belgium; Member of the Royal Academy of Medicine of Belgium

Brain Stimulation in the Management of Persistent Pain; Cerebral Lesions for Psychiatric Disorders and Pain

MICHAEL M. HAGLUND, M.D., Ph.D.

Assistant Professor of Neurosurgery and Neurobiology, Duke University Medical Center, Durham, North Carolina

Optical Imaging in Epilepsy Surgery

MICHAEL V. HAJJAR, M.D.

Resident, Department of Neurosurgery, University of South Florida College of Medicine, Tampa, Florida

Surgical Management of Tumors of the Nerve Sheath Involving the Spine

STEN HÅKANSON, M.D., Ph.D.

Associate Professor and Consultant, Tawam Hospital, Abu Dhabi, United Arab Emirates

Retrogasserian Glycerol Rhizolysis in Trigeminal Neuralgia

AKIRA HAKUBA, M.D., D.M.Sc.

Professor and Chairman, Department of Neurosurgery, Osaka City University, Osaka, Japan

Orbitozygomatic Infratemporal Approach to Parasellar Meningiomas

MARK G. HAMILTON, M.D.C.M., F.R.C.S.(C.)

Department of Neurosurgery, University of Calgary, Faculty of Medicine; Alberta Children's Hospital; Foothills Hospital; Tom Baker Cancer Center, Calgary, Alberta, Canada

Surgical Management of Midbasilar and Lower Basilar Aneurysms

WINIFRED J. HAMILTON, Ph.D.

Department of Neurosurgery, Baylor College of Medicine, Houston, Texas

Temporal Lobe Operations for Drug-Resistant Epilepsy

RUSSELL W. HARDY, Jr., M.D.

Professor, Department of Neurological Surgery, University Hospital, Case Western Reserve University, Cleveland, Ohio

Surgery of the Sympathetic Nervous System

J. FREDERICK HARRINGTON, Jr., M.D.

Assistant Professor of Neurosurgery, Brown University School of Medicine; Surgeon-in-Charge, Spinal Neurosurgery, Rhode Island Hospital, Providence, Rhode Island

Surgical Management of Segmental Spinal Instability

GRIFFITH R. HARSH, M.D.

Professor, Stanford University Medical School; Director, Brain Tumor Center, Stanford Medical Center, Stanford, California

Surgical Management of Recurrent Gliomas

CARL B. HEILMAN, M.D.

Assistant Professor, Tufts University School of Medicine; Tufts New England Medical Center, Boston, Massachusetts
Surgical Management of Glomus Jugulare Tumors; Distal Anterior Cerebral Artery Aneurysms

OLAVI HEISKANEN, M.D., Ph.D.

Chief of Service (Emeritus), Department of Neurosurgery, Helsinki University Central Hospital, Helsinki, Finland

Surgical Management of Unruptured Cerebral Aneurysms

DIETER HELLWIG, M.D.

Associate Professor, Department of Neurosurgery, Philipps-University of Marburg, Marburg, Germany

Surgical Management of Arachnoid, Suprasellar, and Rathke's Cleft Cysts

SANDRA L. HELMERS, M.D.

Assistant Professor in Neurology, Harvard Medical School; Assistant in Neurology and Director, Evoked Potential Laboratory, Harvard Medical School and Children's Hospital, Boston, Massachusetts

Treatment of Intractable Epilepsy by Electrical Stimulation of the Vagal Nerve

JUHA A. HERNESNIEMI, M.D., Ph.D.

Professor, Department of Neurosurgery, School of Medicine, University of Helsinki; Chairman, Department of Neurosurgery, University Central Hospital of Helsinki, Helsinki, Finland

Surgical Management of Aneurysms of the Middle Cerebral Artery; Surgical Management of Terminal Basilar Artery and Posterior Cerebral Artery Aneurysms

ROBERTO C. HEROS, M.D.

Professor, Co-Chairman, and Program Director, Department of Neurosurgery, University of Miami School of Medicine, Miami, Florida

Surgical Management of Unclippable Intracranial Aneurysms

D. HOFFMANN, M.D.

Hospital of Grenoble, Grenoble, France

Multilobar Resections for the Control of Epilepsy

MARTIN HOLLAND, M.D.

Assistant Professor, University of California at San Francisco; Attending Neurosurgeon, Department of Neurosurgery, San Francisco General Hospital, San Francisco, California

Cranioplasty: Indications, Techniques, and Results

ROBERT N. N. HOLTZMAN, M.D.

Associate Clinical Professor of Neurological Surgery, Columbia University College of Physicians and Surgeons; Associate Attending in Neurosurgery, New York Presbyterian Hospital, New York, New York

Surgical Management of Intracranial Aneurysms Caused by Infection

JÜRGEN HONEGGER, M.D.

Assistant Professor, Department of Neurosurgery, University of Freiburg, Freiburg, Germany

Transsphenoidal Microsurgery of Craniopharyngioma

JOHN H. HONEYCUTT, Jr., M.D.

Neurosurgery Resident, University of Oklahoma, Department of Neurosurgery, Oklahoma City, Oklahoma
Surgical Management of Extracranial Carotid Artery Disease

MICHAEL B. HOROWITZ, M.D.

Associate Professor of Neurosurgery and Radiology, Department of Neurological Surgery, University of Pittsburgh School of Medicine and Medical Center, Pittsburgh, Pennsylvania

Surgical Management of Intraoperative Aneurysm Rupture

MOHAMMED HOSBAN, M.B., B.S., F.R.C.S.

Consultant Neurosurgeon, King Hussein Medical Centre, Amman, Jordan

Carbon Fiber Implants in Anterior Cervical Disk Surgery

EDGAR M. HOUSEPIAN, M.D.

Professor Emeritus of Neurological Surgery, Columbia University College of Physicians and Surgeons; Attending in Neurological Surgery, Columbia-Presbyterian Medical Center, New York, New York

Surgical Management of Intraorbital Tumors

ALAN R. HUDSON, M.B., Ch.B., F.R.C.S.(C.)

Professor of Neurosurgery, University of Toronto, Faculty of Medicine; President and CEO, The Toronto Hospital, Toronto, Ontario, Canada

Surgical Management of Peripheral Nerve Tumors

JAMES E. O. HUGHES, M.D.

Assistant Clinical Professor of Neurological Surgery, College of Physicians and Surgeons of Columbia University; Chief, Division of Neurosurgery, Harlem Hospital Center, New York, New York

Surgical Management of Intracranial Aneurysms Caused by Infection

OREST HURKO, M.D.

Departments of Neurology and Medicine, Johns Hopkins University School of Medicine; Division of Neurogenetics, Johns Hopkins Hospital, Baltimore, Maryland

Management of Achondroplasia and Its Neurosurgical Complications

MARK R. IANTOSCA, M.D.

Clinical Assistant Professor, Department of Neurosurgery, University of Connecticut, Farmington; Director, Division of Pediatric Neurosurgery, Connecticut Children's Medical Center, Hartford, Connecticut

Current Systems for Cerebrospinal Fluid Shunting and Management of Pediatric Hydrocephalus: Endoscopic and Image-Guided Surgery in Hydrocephalus

HAE-DONG JHO, M.D., Ph.D.

Professor of Neurosurgery, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

Endoscopic Transsphenoidal Surgery

J. PATRICK JOHNSON, M.D.

Associate Professor, University of California, Los Angeles School of Medicine; Co-Director, UCLA Comprehensive Spine Program, Division of Neurosurgery, UCLA Medical Center, Los Angeles, California

Thoracoscopic Sympathectomy

FRANCIS JOHNSTON, F.R.C.S.

Consultant Neurosurgeon, Atkinson Morely Hospital, London, England, United Kingdom

Craniofacial Resection for Anterior Skull Base Tumors

R. A. JOHNSTON, M.D., F.R.C.S.

Honorary Clinical Senior Lecturer, University of Glasgow; Consultant Neurosurgeon, Institute of Neurological Sciences and Queen Elizabeth National Spinal Injuries Unit, Southern General Hospital NHS Trust, Glasgow, Scotland

Surgical Management of the Rheumatoid Cervical Spine

P. KAHANE, M.D.

J. Fourier University; Hospital of Grenoble, Grenoble, France

Multilobar Resections for the Control of Epilepsy

ANDREW KAM, M.B.B.S., F.R.A.C.S.

Neurosurgical Registrar, Royal Alexandra Hospital for Children, Sydney, New South Wales, Australia

Perioperative Care After an Aneurysmal Subarachnoid Hemorrhage

MICHAEL KAZIM, M.D.

Assistant Professor of Ophthalmology, College of Physicians and Surgeons of Columbia University; Attending in Neurological Surgery, New York Presbyterian Hospital, New York, New York

Surgical Management of Intraorbital Tumors

DANIEL F. KELLY, M.D.

Division of Neurosurgery, University of California, Los Angeles, School of Medicine and Health Sciences Center, Los Angeles; Harbor-UCLA Medical Center, Torrance, California

Surgical Management of Severe Closed Head Injury in Adults

PATRICK J. KELLY, M.D.

Professor and Chairman of Neurosurgery, Department of Neurosurgery, New York University School of Medicine; Attending Neurosurgeon, Tisch Hospital-NYU Medical Center, New York, New York

CT/MRI-Based Computer-Assisted Volumetric Stereotactic Resection of Intracranial Lesions

SANFORD KEMPIN, M.D.

Associate Professor of Clinical Medicine, Cornell University Medical College; Associate Attending Physician and Acting Chief, Hematology Service, Memorial Sloan-Kettering Cancer Center, New York, New York

Disorders of the Spine Related to Plasma Cell Dyscrasias

ELENA A. KHUHLAEVA, M.D.

Pediatric Neurologist, Bukenko Neurosurgical Institute, Pediatric Department, Moscow, Russia

Surgical Management of Diencephalic and Brain Stem Tumors

DANIEL H. KIM, M.D.

Assistant Professor, Department of Neurosurgery, and Director of Spinal Neurosurgery and Reconstructive Peripheral Nerve Surgery, Stanford University Medical Center, Stanford, California

Surgical Approaches to the Cervicothoracic Junction; Surgical Management of Peripheral Nerve Tumors