



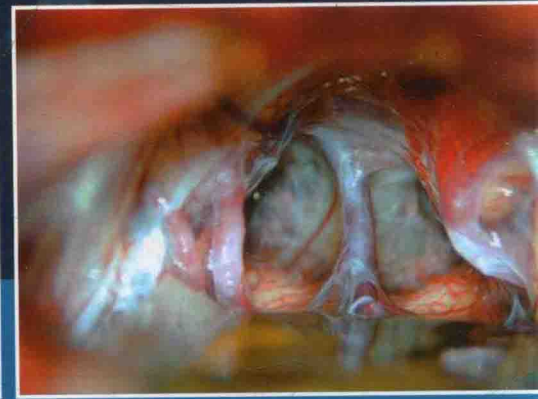
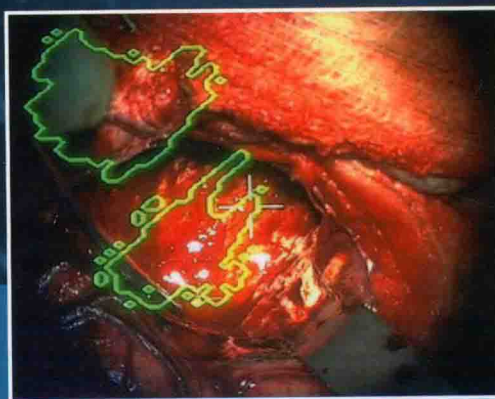
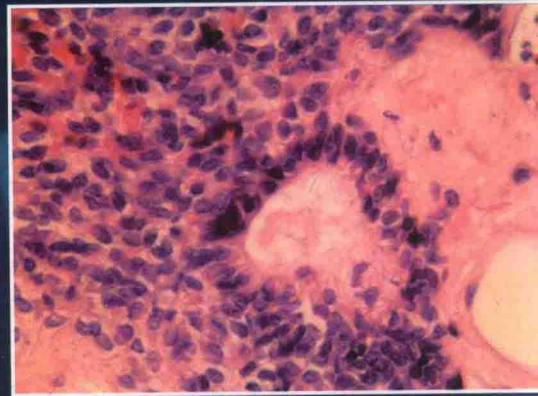
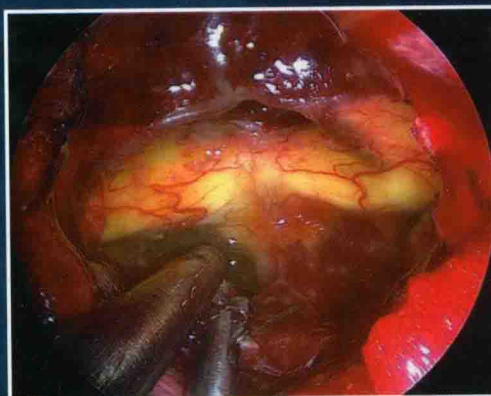
Neuro-Oncology The Essentials

Third Edition

神经肿瘤学 原理与实践

第 3 版

MARK BERNSTEIN • MITCHEL S. BERGER



主 编 [加] 马克·伯恩斯坦
[美] 米切尔·S. 伯杰

主 译 吴安华
副主译 景治涛

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地 址:天津市南开区白堤路244号

邮政编码:300192

电 话:(022)87894896

传 真:(022)87895650

网 址:www.tsttpc.com

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译者名单

主 译 吴安华

副主译 景治涛

译 者 (按姓氏汉语拼音排序)

班允超	程 文	崔 晓	崔启韬	邓 健	付锦龙
关永昌	管格非	郭 清	韩 圣	韩 帅	呼虹宇
黄焱明	蒋 炆	李 龙	李 响	刘 洋	刘志鹏
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王子瑁	杨 雪	于杰夫	张 青	张 彧	张东勇
张婉婷	赵 丹	周锦鹏	邹存义	邹敬宇	

编者名单

Kenneth D. Aldape, MD

Associate Professor
Department of Pathology
M.D. Anderson Cancer Center
University of Texas
Houston, Texas

Kaith K. Almefty, MD

Resident
Department of Neurosurgery
Barrow Neurological Institute
Phoenix, Arizona

Ossama Al-Mefty, MD

Director
Skull Base Program
Lecturer
Harvard Medical School
Brigham and Women's Hospital
Boston, Massachusetts

James Ayokunle Balogun, MD

Clinical Fellow
Surgical Neuro-Oncology
Division of Neurosurgery
Toronto Western Hospital
University Health Network
Toronto, Ontario, Canada

Fred G. Barker II, MD

Associate Professor
Department of Neurosurgery
Harvard Medical School
Attending Neurosurgeon
Director
Cranial Base Center
Brain Tumor Center/Neuro-Oncology
Massachusetts General Hospital
Boston, Massachusetts

Gene H. Barnett, MD, MBA

Director
Brain Tumor and Neuro-Oncology Center
Director
Cleveland Clinic Gamma Knife Center
Vice Chairman
Department of Neurosurgery
Cleveland Clinic
Cleveland, Ohio

Glenn S. Bauman, MD, FRCPC

Professor and Chair/Chief
Department of Oncology
London Regional Cancer Program
London, Ontario, Canada

Mitchel S. Berger, MD, FACS, FAANS

Berthold and Belle N. Guggenheimer Professor
Chairman, Department of Neurological Surgery
Director, Brain Tumor Research Center
University of California San Francisco
San Francisco, California

Mark Bernstein, MD, BSc, MHSc, FRCSC

The Greg Wilkins-Barrick Chair in
International Surgery
Professor
Department of Surgery
University of Toronto
Neurosurgeon
Toronto Western Hospital
Toronto, Ontario, Canada

Frederick A. Boop, MD

Professor and J.T. Robertson Chairman
Department of Neurosurgery
University of Tennessee Health Science Center, Memphis
St. Jude Children's Research Hospital
Semmes-Murphey Neurologic and Spine Institute
Chief
Pediatric Neurosurgery
LeBonheur Children's Hospital
Memphis, Tennessee

Henry Brem, MD

Professor
Department of Neurosurgery, Oncology, Ophthalmology,
and Biomedical Engineering
Neurosurgeon-in-Chief
Johns Hopkins University School of Medicine
Department of Neurosurgery
Johns Hopkins Hospital
Baltimore, Maryland

Jeffrey N. Bruce, MD, FACS

Professor
Department of Neurological Surgery
Vice Chairman, Academic Affairs
Director
Bartoli Brain Tumor Research Laboratory

Co-Director, Brain Tumor Center
New York, New York

Soonmee Cha, MD

Professor
Departments of Radiology and Neurological Surgery
Program Director
Diagnostic Radiology Residency
Department of Radiology and Biomedical Imaging
University of California at San Francisco
San Francisco, California

Kaisorn L. Chaichana, MD

Neurosurgery Resident
Johns Hopkins Hospital
Baltimore, Maryland

Susan M. Chang, MD

Professor and Lai Wan Kai Chair
Neurological Surgery
Department of Neurological Surgery
University of California at San Francisco
San Francisco, California

Bryan D. Choi, MD

Duke Medical Scientist Training Program
Duke University
Durham, North Carolina

Elizabeth B. Claus, MD, PhD

Professor and Director of Medical Research
School of Public Health
Yale University
New Haven, Connecticut
Attending Neurosurgeon
Brigham and Women's Hospital
Boston, Massachusetts

William T. Couldwell, MD, PhD

Professor and Chairman
Department of Neurosurgery
University of Utah School of Medicine
Health Science Center
Salt Lake City, Utah

Ralph G. Dacey, Jr., MD, FACS, FAANS, FRCSI (Hon)

Henry G. and Edith R. Schwartz Professor
and Chairman
Neurological Surgery
Neurosurgeon-In-Chief
Barnes-Jewish Hospital
Department of Neurological Surgery
Washington University School of Medicine
St. Louis, Missouri

Lisa M. DeAngelis, MD

Chair
Department of Neurology

Memorial Sloan-Kettering Cancer Center
New York, New York

Rebecca DeBoer, MD

Resident
Internal Medicine Residency Program
University of Chicago
Chicago, Illinois

Michael DeCuypere, MD, PhD

Department of Neurosurgery
University of Tennessee Health Science Center
Memphis, Tennessee

John F. de Groot, MD

Assistant Professor
Department of Neuro-Oncology
University of Texas M.D. Anderson Cancer Center
Houston, Texas

Peter B. Dirks, MD, PhD

Division of Neurosurgery
Program in Developmental and Stem Cell Biology
Hospital for Sick Children
Toronto, Ontario, Canada

Hugues Duffau, MD

Department of Neurosurgery
Gui de Chauliac Hospital
Montpellier University Medical Center
National Institute for Health and Medical Research
(INSERM)
Institute for Neurosciences of Montpellier
Montpellier University Medical Center
Montpellier, France

Kadir Erkmén, MD

Assistant Professor
Department of Surgery and Neurology
Geisel School of Medicine
Lebanon, New Hampshire

Richard G. Everson, MD

Senior Resident
Department of Neurosurgery
University of California Los Angeles
Los Angeles, California

Peter E. Fecci, MD, PHD

Resident Physician
Department of Neurosurgery
Massachusetts General Hospital
Harvard Medical School
Boston, Massachusetts

Michael G. Fehlings, MD, PhD, FRCSC, FACS

Professor, Division of Neurosurgery
Halbert Chair in Neural Repair and Regeneration
Kremlin Neuroscience Center

Head
Spine Program Toronto Western Hospital
University of Toronto
Toronto, Ontario, Canada

Marco Gallo, PhD
Research Fellow
Division of Neurosurgery
Program in Developmental and Stem Cell Biology
Hospital for Sick Children
University of Toronto
Toronto, Ontario, Canada

Sarah T. Garber, MD
Resident
Department of Neurosurgery
University of Utah School of Medicine
Salt Lake City, Utah

Roxanna M. Garcia, MD, MS
UCB School of Public Health
University of California Berkeley
Berkeley, California

Oren N. Gottfried, MD
Assistant Professor
Department of Surgery
Duke University School of Medicine
Durham, North Carolina

Jennifer Moliterno Gunel, MD
Neurosurgical Oncology Fellow
Memorial Sloan-Kettering Cancer Center
Memorial Hospital
New York, New York

Devon H. Haydon, MD
Resident
Department of Neurological Surgery
Washington University School of Medicine
St. Louis, Missouri

Wolf-Dieter Heiss, MD
Professor
Danube University Krems
Max Planck Institute for Neurological Research
Klaus-Joachim-Zuelch-Laboratories of the Max-Planck
Society
University of Cologne
Cologne, Germany

Elizabeth J. Hovey, MBBS, FRACP, MSc
Conjoint Senior Lecturer
University of New South Wales
Honorary Associate
University of Sydney
Specialist, Medical Oncology
Prince of Wales Hospital
Sydney, Australia

B. Matthew Howe, MD
Department of Radiology
Mayo Clinic
Rochester, Minnesota

George M. Ibrahim, MD
Resident, Division of Neurosurgery
University of Toronto
Toronto, Ontario, Canada

John Kestle, MD, MSc, FRCSC, FACS
Pediatric Neurosurgery
Primary Children's Hospital
Salt Lake City, Utah

Osaama H. Khan, MD, MSc
Resident, Division of Neurosurgery
University of Toronto
Toronto, Ontario, Canada

Douglas Kondziolka, MD, MSc, FRCSC, FACS
Professor
Department of Neurosurgery and Department of Radiation
Oncology
Vice-Chair
Clinical Research (Neurosurgery)
Director
Center for Advanced Radiosurgery
New York University Langone Medical Center
New York, New York

Lutz W. Kracht, MD
Senior Scientist
Max-Planck-Institute for Neurological Research
Klaus-Joachim-Zuelch-Laboratories of the Max-Planck
Society
University of Cologne
Cologne, Germany

Khaled M. Krisht, MD
Chief Resident
Department of Neurosurgery
University of Utah School of Medicine
Salt Lake City, Utah

Walter Kucharczyk, MD
Radiologist and Scientist
Toronto Western Hospital, Toronto General
Hospital
Institute of Medical Sciences
University of Toronto
Toronto, Ontario, Canada

Frederick Lang, MD, FACS, FAANS
Professor and Director
Clinical Research

Department of Neurosurgery
University of Texas
M.D. Anderson Cancer Center
Houston, Texas

Normand Laperriere, MD, FRCPC, FRANZCR (Hon)

Professor
University of Toronto
Department of Radiation Oncology
Princess Margaret Cancer Centre/University Health Network
Toronto, Ontario, Canada

Linda M. Liao, MD

Professor and Vice Chair
Department of Neurosurgery
University of California Los Angeles
Los Angeles, California

Daniel M. Mandell, MD, FRCPC

Staff Neuroradiologist
Toronto Western Hospital
Assistant Professor
Faculty of Medicine
University of Toronto
Toronto, Ontario, Canada

James M. Markert, MD

Division Director
Department of Neurosurgery
Professor
Departments of Neurosurgery, Physiology, and Pediatrics
University of Alabama
Birmingham, Alabama

Paul C. McCormick, MD, MPH, FAANS

Herbert and Linda Gallen Professor
Department of Neurological Surgery
Columbia University College of Physicians and Surgeons
New York Neurological Institute
New York, New York

Michael W. McDermott, MD

Professor in Residence
Department of Neurological Surgery
Halperin Endowed Chair
Neurosurgical Director
Gamma Knife® Radiosurgery Program
Vice Chairman
Department of Neurological Surgery
Robert & Ruth Halperin Chair
Meningioma Research
University of California San Francisco
San Francisco, California

Joseph H. Miller, MD

Resident
Division of Neurosurgery
University of Alabama at Birmingham
Birmingham, Alabama

Mustafa Nadi, MD

Postdoctoral Fellow
Arthur and Sonia Labatt Brain Tumour Research Center
Division of Neurosurgery
Hospital for Sick Children
Toronto, Ontario, Canada

Robert P. Naftel, MD

Assistant Professor
Department of Neurological Surgery
Vanderbilt University Medical Center
Nashville, Tennessee

Srikantan S. Nagarajan, MD

Professor
Department of Radiology and Biomedical Imaging
Director, Biomagnetic Imaging Laboratory
University of California at San Francisco
San Francisco, California

Anick Nater, MD

Resident, Division of Neurosurgery
University of Toronto
Toronto, Ontario, Canada

Kyle Richard Noll, PhD

Neuropsychology Fellow
Department of Physical Medicine and Rehabilitation
Baylor College of Medicine
Houston, Texas

Barbara J. O'Brien, MD

Fellow
Department of Neuro-Oncology
University of Texas M.D. Anderson Cancer Center
Houston, Texas

Alfred T. Ogden, MD

Director
Minimally Invasive Spine Surgery
Department of Neurological Surgery
Columbia University
New York, New York

Taemin Oh, BA

Pre-Doctoral Fellow
Department of Neurological Surgery
Northwestern Feinberg School of Medicine
Chicago, Illinois

Andrew T. Parsa, MD, PhD

Michael J. Marchese Professor and Chair
Department of Neurological Surgery
Northwestern University Feinberg School of Medicine
Chicago, Illinois

Akash J. Patel, MD

Resident Advisor
Department of Neurosurgery

University of Texas
M.D. Anderson Cancer Center
Houston, Texas

James Perry, MD, FRCPC

Associate Professor
Medicine
Crolla Family Chair of Brain Tumour Research
Division of Neurology, Department of Medicine
Sunnybrook Health Sciences Centre and Odette Cancer Centre
Toronto, Ontario, Canada

Michael J. Petr, MD, PhD

Minimally Invasive Cranial Surgery
Lyerly Neurosurgery
Jacksonville, Florida

Joseph M. Piepmeier, MD

Chief
Department of Surgical Neuro-Oncology
Yale University
New Haven, Connecticut

Ian F. Pollack, MD, FACS, FAAP, FAANS

Chief
Department of Pediatric Neurosurgery
Children's Hospital of Pittsburgh
Leland Albright Professor of Neurological Surgery
Vice Chairman for Academic Affairs
Department of Neurological Surgery
Co-Director, UPCI Brain Tumor Program
University of Pittsburgh School of Medicine
Pittsburgh, Pennsylvania

Michael D. Prados, MD

Charles B. Wilson Professor
Department of Neurosurgery
Professor
Department of Pediatrics (Neuro-Oncology)
Director
Division of Translational Research in Neuro-Oncology
Program Leader, Neurological Oncology Program
Comprehensive Cancer Center
University of California at San Francisco
Co-Project Leader
Adult Brain Tumor Consortium
Project Leader
Pacific Pediatric Neuro-Oncology Consortium
San Francisco, California

Aditya Raghunathan, MD, MPH

Senior Staff Pathologist
Departments of Pathology and Laboratory Medicine, and
Neurosurgery
Henry Ford Health System
Detroit, Michigan

Vijay Ramaswamy, MD, FRCPC

Clinical Research Fellow
Hospital for Sick Children
Brain Tumour Research Centre
Toronto, Ontario, Canada

Marc Remke, MD

Division of Neurosurgery
Hospital for Sick Children
University of Toronto
Toronto, Ontario, Canada

David W. Roberts, MD

Section Chief
Department of Neurosurgery
Professor
Department of Surgery
Geisel School of Medicine
Dartmouth-Hitchcock Norris Cotton Cancer Center
Lebanon, New Hampshire

James T. Rutka, MD, PhD, FRCSC, FACS, FAAP

Professor and Chair
Department of Surgery
University of Toronto
Codirector and Principal Investigator
Arthur and Sonia Labatt Tumour Research Centre
Division of Neurosurgery
Hospital for Sick Children
Toronto, Ontario, Canada

Martin J. Rutkowski, MD

Resident
Department of Neurological Surgery
University of California at San Francisco
San Francisco, California

Arjun Sahgal, MD

Associate Professor
Department of Radiation Oncology
Sunnybrook Health Sciences Centre
University of Toronto
Toronto, Ontario, Canada

John H. Sampson, MD

Robert H. and Gloria Wilkins Distinguished Professor of
Neurosurgery
Professor of Pathology, Immunology, and Radiation
Oncology
Director
Duke Brain Tumor Immunotherapy Program
The Preston Robert Tisch Brain Tumor Center at Duke
Division of Neurosurgery, Department of Surgery
Duke University Medical Center
Durham, North Carolina

Nader Sanai, MD

Director
Neurosurgical Oncology and Barrow Brain Tumor Research
Center
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
Phoenix, Arizona

Raymond Sawaya, MD

Professor and Chairman
Department of Neurosurgery
University of Texas
M.D. Anderson Cancer Center
Houston, Texas

Jason L. Schroeder, MD

Department of Neurosurgery
Harold F. Young Neurosurgical Center
Virginia Commonwealth University
Richmond, Virginia

Theodore H. Schwartz, MD

Associate Professor
Department of Neurosurgery
Codirector
Institute for Minimally Invasive Skull Base and Pituitary
Surgery
Weill Cornell Medical College
New York Presbyterian Hospital
New York, New York

Cara Sedney, MD

Chief Resident
Division of Neurosurgery
Robert C. Byrd Health Sciences Center School of Medicine
West Virginia University
Morgantown, West Virginia

Ganesh M. Shankar, MD PhD

Neurosurgical Resident
Massachusetts General Hospital
Harvard Medical School
Boston, Massachusetts

Penny K. Sneed, MD, FACP

Professor in Residence
Department of Radiation Oncology
University of California at San Francisco
San Francisco, California

Adam M. Sonabend, MD

Resident
Department of Neurosurgery
Columbia University Medical Center
New York, New York

Mark M. Souweidane, MD

Neurological Surgeon
Weill Cornell Medical Center
New York Presbyterian Hospital
New York, New York

Robert J. Spinner, MD

Professor
Departments of Neurologic Surgery and
Orthopedics
Mayo Clinic
Rochester, Minnesota

Michael D. Taylor, MD, PhD, FRSCC

Associate Professor
Division of Neurosurgery
Hospital for Sick Children
Toronto, Ontario, Canada

Elina Tsyvkin, MD

Fellow
Tufts Medical Center
Boston, Massachusetts

Pablo A. Valdes, PhD

MD/PhD Candidate
Dartmouth College
Geisel School of Medicine at Dartmouth and Thayer
School of Engineering
Hanover, New Hampshire

Frederick Vincent, MD

Neurosurgeon
Providence Health and Services
Portland, Oregon

Kyle M. Walsh, PhD

Postdoctoral Scholar
Epidemiology and Biostatistics
University of California at San Francisco School of Medicine
San Francisco, California

Xin Wang

MD/PhD Program
Clinical Sciences
University of Toronto
Toronto, Ontario, Canada

Ronald E. Warnick, MD

Professor
Department of Neurosurgery
John M. Tew, Jr., M.D. Chair
Neurosurgical Oncology
Director
UC Brain Tumor Center
Cincinnati, Ohio

Jeffrey Scott Wefel, PhD, ABPP

Chief Ad Interim
Section of Neuropsychology
Associate Professor
Department of Neuro-Oncology
M.D. Anderson Cancer Center
Houston, Texas

Jon D. Weingart, MD

Professor
Department of Neurological Surgery and Oncology
Director
Neurosurgical Operating Room
Johns Hopkins Medicine
Baltimore, Maryland

Margaret R. Wrensch, MPH, PhD

Professor in Residence
Department of Neurological Surgery and Epidemiology and
Biostatistics
Stanley D. Lewis and Virginia S. Lewis Endowed Chair
Brain Tumor Research
Codirector
Division of Neuroepidemiology
University of California at San Francisco
San Francisco, California

W. K. Alfred Yung, MD

Professor and Chairman
Department of Neuro-Oncology
University of Texas M.D. Anderson Cancer Center
Houston, Texas

Gelareh Zadeh, MD, PhD, FRCSC

Division of Neurosurgery
Toronto Western Hospital
University of Toronto
Toronto, Ontario, Canada

Corinna C. Zygourakis, MD

Resident
Department of Neurological Surgery
University of California at San Francisco
San Francisco, California

中文版序言

进入 21 世纪,伴随科学技术的飞速发展,新诊疗技术不断涌现,如现代影像技术、神经导航、神经内镜和质子刀等,推进神经外科迈入微创时代,神经外科手术理念随之发生变化,神经肿瘤学也得到了长足的进步。

2015 年 1 月 20 日,时任美国总统的奥巴马在国情咨文中提出“精准医学(Precision Medicine, PM)”。启动精准医学计划前,许多国家已进行了长期的基因组研究,特别是美国癌症基因组图谱计划(The Cancer Genome Atlas, TCGA),借助基因组测序和信息分析,解释癌症药物抗性的原因,阐明癌症基因组的异质性特征,解析癌症复发和转移的机制,建立癌症联合用药新的应用指南,最终形成对癌症精确诊断、分子分型、治疗应答预测的标志物等一整套精准医学指标,为临床治疗提供了科学基础,特别是对肿瘤分子分型具有指导性意义,推动了癌症治疗药物的研发。

由马克·伯恩斯坦和米切尔·S. 伯杰主编的《神经肿瘤学:原理与实践》在神经外科由微创医学向精准医学转变阶段重新再版。本书把传统的基础理论和创新知识相结合,把握了技术性革命的脉搏,反映了神经肿瘤领域发展的广阔性和复杂性。本书第 3 版每个章节都删除了一些陈旧内容,补充了近年的新技术,添加了临床循证医学结论。全书共 48 章,可归纳为基础医学、临床诊疗和护理康复 3 部分内容。基础医学部分包括神经肿瘤疾病的流行病学特点和变化,病理、代谢特征,分子标记物和调控通路,以及相关学科的基础技术。临床诊疗部分从鉴别检查方式到微创手术理念,以及放射治疗和化疗原则等领域做了更新,并在转化医学层面上详细介绍了当前热点内容,如神经肿瘤免疫治疗、基因治疗和靶向治疗等。护理康复部分介绍了神经肿瘤患者不同时期的护理原则和要点,神经功能和精神状态的各种评价标准,以及运动、语言、记忆力等能力的康复训练方法。

《神经肿瘤学:原理与实践》与其他神经肿瘤学书籍的侧重点不同,本书主要介绍神经肿瘤学要点,内容简洁,并使用大量特殊文本框,便于读者阅读和理解。

我国的脑计划即将启动,认知障碍相关重大脑疾病研究是重要研究领域,包括神经性肿瘤造成的功能障碍或开颅手术时的实时脑功能监测,是探讨人脑认知功能的重要途径。我国相关疾病患者数量多,紧密整合临床与基础力量,从反向思路入手研究认知功能机制,神经外科具有开颅手术直接面对人脑的优势,可以为我国脑科学研究做出贡献。

相信本书不仅可供从事神经肿瘤学的同行和对该领域感兴趣的医疗和科研工作者参考,而且将有助于我国的脑研究。

赵继宗

中国科学院院士

国家神经系统疾病临床研究中心主任

首都医科大学附属天坛医院神经外科学系教授,主任

2017 年 11 月

中文版前言

《神经肿瘤学:原理与实践》是系统性介绍神经肿瘤学的学术专著,本书由专门从事神经肿瘤基础与临床研究的著名专家 Mark Bernstein 与其他神经肿瘤学专家、学者共同编写。全书共 48 章,从流行病学、生物学、病理学、临床诊断、手术、放化疗、护理和新技术展望等多方面系统性、序贯性地讲解了神经肿瘤学相关知识。在基础层面上,以分子-细胞-动物模型为主线,系统阐述了脑肿瘤干细胞、肿瘤细胞分子生物学、脑肿瘤组织原位移植模型、神经肿瘤标志物和神经肿瘤病理分类等领域的基本知识和研究进展。并在转化医学层面上详细介绍了神经肿瘤免疫治疗、基因治疗和靶分子治疗等当前热点内容。在临床层面上,较为全面地纳入临床诊治总论、微创手术治疗、神经肿瘤影像学诊断、放化疗原则、肿瘤血管介入治疗、功能区低级别胶质瘤清醒开颅手术治疗和颅骨肿瘤治疗等被广泛关注和新技术进展。此外,还邀请眼科、耳鼻喉科、内分泌科专家撰写了神经外科医师在临床工作中经常遇到的学科交叉内容;并邀请家庭医疗和护理专业的专家撰写了癌症患者护理与康复等在日常工作中容易被疏漏的问题。

将此书翻译成中文,对我们来说是一种荣幸,更是一份沉甸甸的责任。从接受委托至今我们经历了很多,但从中学到了更多。虽然经常需要在深夜翻译和校对稿件,但我们很满足并享受这个过程。书中的许多内容启示我们思考了很多问题,翻译工作的完成也是对我们能力的检验、完善和提高,是一次飞跃式的成长,并将激励我们前进。

《神经肿瘤学:原理与实践》充分反映了当今神经肿瘤学领域研究与诊治的最新动态,适合神经外科、神经内科、神经肿瘤科、放射治疗科和病理科等相关专业的医师、护士、教师使用,也适用于硕士生、博士生在内的各级学生在临床实践、实验选题、课题实施和解决实验所遇难题时学习参考。希望这本书能给关注神经肿瘤学的人们带来帮助,能促进我国神经肿瘤事业的发展!



于中国医科大学附属第一医院

2017 年 6 月

前言

本书第1版出版于2000年,与以往的神经肿瘤学书籍不同,本书每个章节都选取了其中重要的知识点,并对其进行简明扼要但重点突出的讲解。这使得本书易于阅读和总结,尤其适用于那些主修方向并不是神经肿瘤学的住院医师和实习医生。

第2版在上一版的基础上进行了修改,于2008年出版。第2版中我们增加了一些相关章节,删除了一些过时的内容。在这次第3版改版过程中,我们删除了一些章节(例如,光动力疗法)。随着神经肿瘤领域错综复杂的发展,我们又增加了8章新的内容,使本书能够与时俱进。在新版的编写过程中我们也邀请了一些新的编者,这些编者都是在相关领域被高度认可的专家、学者。

主要内容的变化在以下3章,神经导航(包括立体定向手术)、术中磁共振和其他术中辅助方法。这反映出术中导航在现代脑肿瘤手术中起着重要的作用。我们还增加了神经内镜(因为这项技术的地位与日俱增)、脑室肿瘤(在既往的版本中遗漏了)、假性进展(因为它对肿瘤患者治疗后效果评估和治疗管理起着重要的作用)、随机对照试验(因为它们是我们治疗指南进步的关键)和神经肿瘤全球化的内容(因为越来越多的努力和焦点集中在患者身上,但是临床医生的工作环境越来越糟糕)。

新版的另一个特点是在每一章的最后增加了编者注。在这个版块里编者总结了该章内容的核心知识,进行了历史回顾,强调了编者认为重要的内容。

许多人认为,医学相关学科的书籍内容过于陈旧,导致该书一出版就已经过时了。但是我们一方面需要掌握一个学科的所有基础知识,另一方面需要考虑不同学科的差异性、教育意义和美学等问题。本书中的治疗信息包括了目前可能存在的各种方法,但这本书的主旨是以生物学和病理学为基础的神经肿瘤学,这一点是不会随时间改变的。

我们认为,本书已经在第1版的基础上有了很大的改进,可以帮助那些辛勤工作的、从事神经肿瘤患者治疗管理的内科医生,同时也适于从事相关领域的神经外科、放射治疗科、神经肿瘤科的住院医师和临床医学生阅读。我们真诚地希望这本书有助于大家对神经肿瘤学知识的掌握和临床实践。

马克·伯恩斯坦
米切尔·S.伯杰

献 词

谨以本书献给 Lee、Lauren、Andrea、Jody Bernstein、Joan、Lindsay、Alex Berger，以及所有患者！

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