

# Interactive, Image-Guided, Stereotactic Neurosurgery Systems

**I**magine receiving a telephone call at 2 AM with a request to respond to a disaster in your community. Hurricane-force winds and heavy rains during the last 24 hours have flooded many of the roads in the area. Even though you know you are needed, you are reluctant to venture outside to begin the familiar journey to your hospital. Fortunately, you have a new vehicle that is equipped with the latest navigational equipment. This equipment previously has helped you avoid traffic delays and quickly reach your destination. You hope this same technology now will help you reach the hospital safely. The monitor in your car indicates that your usual route is flooded; therefore, an alternative course is necessary. The surrounding roads are unfamiliar, and you are reluctant to take them. You return to the navigational monitor

that previously alerted you of road obstructions. It displays an area map with the most current road reports. You follow the alternate route suggested by the map and arrive at the hospital within minutes of your usual travel time.

Does this scenario seem unrealistic? Engineers already are working to equip motor vehicles with this kind of navigational equipment. Although this technology would be beneficial in emergency situations, many of us who live in congested areas could use information like this on a daily basis.

## **HISTORICAL PERSPECTIVE**

Humans have used mapping techniques since biblical times when travelers navigated by stars to reach their destinations. Navigational mapping systems evolved in the field of neurosurgery beginning in the early 1900s when physicians conceived stereotactic methodology to register (ie, compare) image or x-ray space with actual physical space in the brain. To achieve this registration, a patient would wear a box-like frame that used the external auditory canals and the inferior orbital rims as anatomical landmarks. Neurosurgeons made intracranial stereotactic calculations based on these landmarks that were visible on plain skull x-ray films.<sup>1</sup>

As more neurosurgeons began using stereotactic technology, they discovered that external landmarks did not always correspond with stereotactically calculated intracranial locations. Anatomic variations caused by the presence of tumor

## **A B S T R A C T**

Interactive, image-guided, stereotactic neurosurgery systems and advanced computer programs enable neurosurgery teams to use magnetic resonance imaging (MRI) and computed tomography (CT) scans to perform less-invasive intracranial tumor excisions. This new methodology, also known as frameless stereotactic neurosurgery, provides accurate, precise preoperative and intraoperative patient information to neurosurgeons. Neurosurgeons use a pointing device to communicate surgical locations quickly to a computer system. The computer then provides immediate, three-dimensional displays of pertinent MRI and CT scan information on the monitor. These intracranial images serve as navigational guides to neurosurgeons before and during surgical intervention. Interactive, image-guided, stereotactic neurosurgery systems, however, are only surgical tools, not substitutes for health care providers' knowledge or expertise. Neurosurgeons must balance their medical judgment with interpretations of computer-generated information throughout the surgical procedures. Interactive, image-guided systems should not interfere with patient care priorities but rather should be worked into the intraoperative nursing routine. *AORN J* 61 (Feb 1995) 360-370.

DIANE LEAGUE, RN

# Stereotactic Neurosurgery Concepts In Neurosurgery

## Vol 2

**Christian Drosten**



## **Stereotactic Neurosurgery Concepts In Neurosurgery Vol 2:**

**Handbook of Medical Imaging** Jacob Beutel, Harold L. Kundel, Richard L. Van Metter, 2000 This volume describes concurrent engineering developments that affect or are expected to influence future development of digital diagnostic imaging It also covers current developments in Picture Archiving and Communications System PACS technology with particular emphasis on integration of emerging imaging technologies into the hospital environment **Keyhole**

**Approaches in Neurosurgery** Axel Perneczky, Robert Reisch, 2009-12-18 Technological progress in neurosurgery preoperative investigation of the exact anatomy of the patient detailed planning of the procedure and use of endoscopes and videosurgery have made approaches for intracranial microsurgical procedures smaller compared to historically standard neurosurgical approaches Building on the previous works Endoscopic Anatomy for Neurosurgery and Keyhole Concept in Neurosurgery this book offers a systematic overview of keyhole approaches in the daily work of a neurosurgeon The approaches strategies indications and technical details described here are complemented by anatomical pictures schemes and artists illustrations and analyzed with regard to geometric boundaries and the topography of the target structures

**Polymeric Site-specific Pharmacotherapy** A. J. Domb, 1994-07-26 Polymeric Site Specific Pharmacotherapy Edited by A J Domb The Hebrew University of Jerusalem Israel This unique edited volume provides a comprehensive overview of site specific drug delivery using polymeric implant devices From the basic concept of localized drug delivery to major applications under active research the subject is treated from a theoretical and practical viewpoint Coverage includes the design development and applications of polymeric devices including suitable polymers delivery systems and mechanisms of drug release Recent advances and ongoing research are included and many subjects are reviewed here for the first time Contributed to by an international team of acknowledged experts this volume will have broad appeal amongst researchers both in academia and industry with an interest in polymer chemistry biopolymers pharmaceutical analysis pharmacology bioengineering and medical and organic chemistry Contents include Implantable Biodegradable Polymers for Site specific Drug Delivery A J Domb Drug Release and Tissue Distribution from a Polymer Implant M L Radomsky Modelling of Drug Delivery to Brain Tissue G D Lapin Polymer Conjugated Macromolecular Drugs for Tumor Specific Targeting H Maeda Drug Delivery to the Brain H Brem K A Walter R J Tamargo A Olivi and R Langer Microparticulate Systems for Site specific Therapy Bone Marrow Targeting C J Porter M C Davies S S Davies and L Illum Drug Delivery to the Lung K C Meyer W Auerbach and R Auerbach Polymers for the Prevention of Surgical Adhesions A J Domb and D Wiseman **Combined**

**Modality Therapy of Central Nervous System Tumors** Zbigniew Petrovich, Luther W. Brady, Michael L. J. Apuzzo, Michael Bamberg, 2012-12-06 The American Cancer Society anticipates that 16 500 patients will be diagnosed with primary malignant tumors of the central nervous system in 2000 with about 200 000 individuals presenting with brain metastases The advances in the treatment of solid tumors have contributed significantly to the major increase in metastatic cancers to the brain Of the

primary malignant tumors of the brain more than 50% are high grade gliomas the incidence has been increasing among older patients over the past decade Major developments in new technologies in the treatment of primary brain tumors as well as metastatic disease are covered in depth Even though management is difficult advances are being made This book is a concerted effort to present data regarding basic science research efforts alongside their translation into clinical practice using combined integrated multimodal programs of treatment Progress has been made but innovative approaches need to be pursued

*Essential Neuromodulation* Jeffrey Arle, Jay L. Shils, 2011-04-14 Neuromodulation is an emerging field that explores the use of electrical chemical and mechanical interventions to heal neurological deficits Such neurostimulation has already shown great promise with disorders and diseases such as chronic pain epilepsy and Parkinson's disease This is the first concise reference covering all of the basic principles of neuromodulation in a single affordable volume for neuro residents fellows and basic clinical practitioners edited by two prominent clinical experts in the field This volume emphasizes essential observations from all of the important clinical phases involved in any neuromodulation targeting intraoperative assessment programming complications and complication avoidance There are commonalities to all neuromodulation procedures that must be brought to the forefront to form a cohesive presentation of neuromodulation and such emphasis will give readers a more solid grounding in the fundamentals needed to embrace this field as a cohesive clinical entity Chapters offer point counterpoint commentary for varied perspectives Appendix distills current guidelines in easy accessible format Chapters follow story of patient care effectively emphasizing general principles with supporting examples Offers outstanding scholarship with over 20% of chapters involving international contributors

*Schmidek and Sweet: Operative Neurosurgical Techniques 2-Volume Set* Alfredo Quinones-Hinajosa, MD, FAANS, FACS, 2012-06-22 Wherever whenever or however you need it unmatched procedural guidance is at your fingertips with the new edition of Schmidek surgical management of blast injuries invasive electrophysiology in functional neurosurgery and interventional management of cerebral aneurysms and arterio venous malformations Take it with you anywhere Access the full text downloadable image library video clips and more at [www.expertconsult.com](http://www.expertconsult.com) With 337 additional expert contributors Get procedural guidance on the latest neurosurgical operative techniques from Schmidek Sweet on your shelf laptop and mobile device

*American Lobotomy* Jenell Johnson, 2015-01-13 Tracing how the meanings of a barbaric surgical procedure emerged accrued and transformed within medicine and public culture in the U S

*Subject Guide to Books in Print*, 1996

*Miller's Anesthesia, 2-Volume Set E-Book* Michael A. Gropper, Lars I. Eriksson, Lee A. Fleisher, Neal H. Cohen, Kate Leslie, Oluwaseun Johnson-Akeju, 2024-07-18 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Anesthesiology Pain Medicine Offering up to date coverage of everything from historical and international perspectives to basic science and today's clinical practice Miller's Anesthesia 10th Edition remains the 1 reference and trusted learning resource for practitioners and trainees in this complex field Dr Michael Gropper leads a team of expert editors and contributing authors who provide current information

on the technical scientific and clinical issues you face each day whether you're managing a challenging patient care situation preparing for the boards or studying for recertification Addresses timely topics alongside foundational basic science for an in depth and comprehensive understanding of the field Contains thoroughly up to date content including two new chapters The Immune System Implications for Anesthetic Management and Emergency Preparedness in Healthcare Provides new content in key areas such as sustainability global health equity the effect of anesthetics on immune function anesthesia for special populations coverage of infectious diseases including COVID 19 and occupational exposure and safety Offers state of the art coverage of anesthetic drugs guidelines for anesthetic practice and patient safety new techniques step by step instructions for patient management the unique needs of pediatric patients and much more all highlighted by more than 1 200 full color illustrations 300 new to this edition for enhanced visual clarity Includes 40 video clips demonstrating patient positioning ultrasound echocardiograms and other imaging and anesthetic procedures in real time *Neurological Research* ,1995

**Risk Control and Quality Management in Neurosurgery** H.-J. Steiger,E. Uhl,2001-10-15 Quality in an invasive discipline such as neurosurgery comprises evidence based medicine cost effectiveness and also risk control Risk control and quality management have become a science on their own combining the expertise of many specialists such as psychologists mathematicians and also economists Intensive communication with basic safety scientists as well as safety experts from the industry and traffic promises ideas and concepts that can be adopted for neurosurgery An international conference was held in Munich in October 2000 bringing together neurosurgeons and safety experts from outside medicine in order to discuss basic aspects of risk control and quality management and to develop structures applicable to neurosurgery Basic aspects such as principles of risk and safety management the human factor as well as standards of neurosurgical patient care proficiency of staff and residents and industrial quality standards were discussed The presentations and discussions resulted in a wealth of new ideas and concepts This book contains this material and thus provides a unique and comprehensive source of information on the current possibilities of quality management in neurosurgery **Key Concepts in MIN -**

**Intracerebral Hemorrhage Evacuation** Klaus Dieter Maria Resch,2020-12-14 This is the first of four volumes that together elaborate on an advanced minimally invasive neurosurgery MIN technique for cerebral hemorrhages which makes it possible to prevent secondary injury by the hematoma and to preserve neurological function and accelerate neuropsychological recovery after the evacuation It describes in detail the theoretical technical and training procedures necessary to carry out successful intracerebral hemorrhage evacuations using MIN techniques A combination of mouth tracked microsurgery neuro sonography neuro endoscopy LASER and sealing makes highly effective minimally invasive evacuation of all types of hematomas possible The MIN Key Concept an advanced new model based on the Keyhole Concept and MIN techniques is also presented Lastly the scientific basics of MIN are discussed and summarized A historical curriculum vitae is included in memory of the main pioneer of innovative MIN techniques Prof Axel Perneczky to whom this book is dedicated *Medical*

and Health Care Books and Serials in Print ,1997      *Diagnostic Techniques and Surgical Management of Brain Tumors* Ana Lucia Abujamra,2011-09-22 The focus of the book *Diagnostic Techniques and Surgical Management of Brain Tumors* is on describing the established and newly arising techniques to diagnose central nervous system tumors with a special focus on neuroimaging followed by a discussion on the neurosurgical guidelines and techniques to manage and treat this disease Each chapter in the *Diagnostic Techniques and Surgical Management of Brain Tumors* is authored by international experts with extensive experience in the areas covered      **Cumulated Index Medicus** ,1996      *The Journal of the Kentucky Medical Association* Kentucky Medical Association,1993      **Tremor Syndromes: Current Concepts and Future Perspectives** Sanjay Pandey,Julián Benito León,Sheng-Han Kuo,2021-11-15      Current Catalog National Library of Medicine (U.S.),1979 First multi year cumulation covers six years 1965 70      *Youmans and Winn Neurological Surgery E-Book* H. Richard Winn,2022-01-21 Widely regarded as the definitive reference in the field *Youmans and Winn Neurological Surgery* offers unparalleled multimedia coverage of the entirety of this complex specialty Fully updated to reflect recent advances in the basic and clinical neurosciences the 8th Edition covers everything you need to know about functional and restorative neurosurgery deep brain stimulation stem cell biology radiological and nuclear imaging and neuro oncology as well as minimally invasive surgeries in spine and peripheral nerve surgery and endoscopic and other approaches for cranial procedures and cerebrovascular diseases In four comprehensive volumes Dr H Richard Winn and his expert team of editors and authors provide updated content a significantly expanded video library and hundreds of new video lectures that help you master new procedures new technologies and essential anatomic knowledge in neurosurgery Discusses current topics such as diffusion tensor imaging brain and spine robotic surgery augmented reality as an aid in neurosurgery AI and big data in neurosurgery and neuroimaging in stereotactic functional neurosurgery 55 new chapters provide cutting edge information on Surgical Anatomy of the Spine Precision Medicine in Neurosurgery The Geriatric Patient Neuroanesthesia During Pregnancy Laser Interstitial Thermal Therapy for Epilepsy Fetal Surgery for Myelomeningocele Rehabilitation of Acute Spinal Cord Injury Surgical Considerations for Patients with Polytrauma Endovascular Approaches to Intracranial Aneurysms and much more Hundreds of all new video lectures clarify key concepts in techniques cases and surgical management and evaluation Notable lecture videos include multiple videos on Thalamotomy for Focal Hand Dystonia and a video to accompany a new chapter on the Basic Science of Brain Metastases An extensive video library contains stunning anatomy videos and videos demonstrating intraoperative procedures with more than 800 videos in all Each clinical section contains chapters on technology specific to a clinical area Each section contains a chapter providing an overview from experienced Section Editors including a report on ongoing controversies within that subspecialty Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Endoscopic and Keyhole Cranial Base Surgery James J. Evans,Tyler J. Kenning,Christopher Farrell,Varun R.

Kshetry,2019-04-02 The first two sections of this text address endoscopic and keyhole surgical procedures for cranial base and deep brain structures These sections provide a comprehensive state of the art review of this minimally invasive field and will serve as a valuable resource for clinicians surgeons and researchers with an interest in cranial base surgery The philosophy techniques indications and limitations of endoscopic and keyhole cranial base surgery are covered in detail This reference includes a discussion of the basic principles of these approaches as well as the preoperative planning intraoperative pearls and reconstruction techniques The thorough descriptions of the practical and technical aspects are accompanied by extensive illustrations figures and operative images Extending beyond the technical details of these procedures this text provides a third section that focuses on a thorough analysis and comparison of the endoscopic keyhole and traditional open approaches to specific intracranial regions Utilizing a target based approach the utility of each surgical technique is evaluated in regard to accessing pathology of the anterior middle and posterior fossa cranial base as well as the deep central regions of the brain All chapters are written by experts in their fields and include the most up to date scientific and clinical information Endoscopic and Keyhole Cranial Base Surgery will be a valuable resource to specialists in optimizing surgical results and improving patient outcomes

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