

Keyhole Concept in Neurosurgery

With Endoscope-Assisted Microsurgery and Case Studies

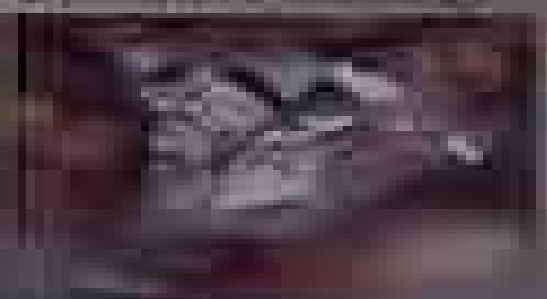
Dr. J. S. S. S. S.



Figure 1



Figure 2



With Endoscope-Assisted Microsurgery and Case Studies



Figure 3

Keyhole Concept In Neurosurgery

**James J. Evans, Tyler J.
Kenning, Christopher Farrell, Varun R.
Kshetry**



Keyhole Concept In Neurosurgery:

Keyhole Concept in Neurosurgery Axel Perneczky, 1999 Written by leading experts in the field this book offers neurosurgeons instruction in a full range of procedures based on the keyhole concept The book uses 25 operative cases all illustrated in precise detail to show how keyhole techniques can be applied in a wide variety of clinical situations

Keyhole Approaches in Neurosurgery Axel Perneczky, Robert Reisch, 2010-11-16 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

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

Keyhole Approaches in Neurosurgery Axel Perneczky, Robert Reisch, 2008-03-25 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

Principles and Practice of Keyhole Brain Surgery Charles Teo, Michael E. Sughrue, 2015-04-29 A step by step guide to modern techniques of keyhole brain surgery Developed 20 years ago by leading innovators in the field the keyhole concept of brain surgery has become an integral part of the practice of neurosurgery This timely and comprehensive book covers the thinking philosophy and techniques of modern keyhole brain surgery including a realistic assessment of its benefits and limitations Written by expert practitioners and highlighted by vivid surgical illustrations and procedural videos

Principles and Practice of Keyhole Brain Surgery functions as an experienced mentor working side by side with neurosurgeons as they master the techniques. Special Features Introduces the basic principles of the keyhole approach including the practical technical and logistical aspects of planning procedures and operating through small openings. Beautifully illustrated with nearly 900 endoscopic images, diagrams, surgical drawings and operative photographs, many showing step by step procedures. Details the pivotal role of the endoscope in keyhole brain surgery and its ability to provide multiple angles of visualization including a useful catalog of clinical situations where the endoscope has proven most effective. Demonstrates contemporary keyhole approaches e.g. the eyebrow sub frontal approach in procedures for supratentorial intra axial brain tumors, tumors of the cribriform plate and orbit, parasellar masses, craniopharyngiomas, tumors of the middle fossa and cavernous sinus and many other conditions in the cranial base. Offers more than 100 procedural videos on the Thieme's MediaCenter narrated by the authors and aligned to chapters in the book for an unparalleled learning resource. Providing all the information necessary to achieve surgical goals through well placed smaller openings with the added benefits of shorter procedures, fewer wound complications and better patient outcomes. Principles and Practice of Keyhole Brain Surgery is essential for every neurosurgeon in practice today.

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

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

Principles and Practice of Keyhole Brain Surgery Charles Teo, Michael E. Sughrue, 2015-04-29 A step by step guide to modern techniques of keyhole brain surgery Developed 20 years ago by leading innovators in the field the keyhole concept of brain surgery has become an integral part of the practice of neurosurgery This timely and comprehensive book covers the thinking philosophy and techniques of modern keyhole brain surgery including a realistic assessment of its benefits and limitations Written by expert practitioners and highlighted by vivid surgical illustrations and procedural videos Principles and Practice of Keyhole Brain Surgery functions as an experienced mentor working side by side with neurosurgeons as they master the techniques Special Features Introduces the basic principles of the keyhole approach including the practical technical and logistical aspects of planning procedures and operating through small openings Beautifully illustrated with nearly 900 endoscopic images diagrams surgical drawings and operative photographs many showing step by step procedures Details the pivotal role of the endoscope in keyhole brain surgery and its ability to provide multiple angles of visualization including a useful catalog of clinical situations where the endoscope has proven most effective Demonstrates contemporary keyhole approaches e g the eyebrow sub frontal approach in procedures for supratentorial intra axial brain tumors tumors of the cribriform plate and orbit parasellar masses craniopharyngiomas tumors of the middle fossa and cavernous sinus and many other conditions in the cranial base Offers more than 100 procedural videos on the Thieme s MediaCenter narrated by the authors and aligned to chapters in the book for an unparalleled learning resource Providing all the information necessary to achieve surgical goals through well placed smaller openings with the added benefits of shorter procedures fewer wound complications and better patient outcomes Principles and Practice of Keyhole Brain Surgery is essential for every neurosurgeon in practice today

Advances and Technical Standards in Neurosurgery F. Cohadon, 2012-12-06 As an addition to the European postgraduate training system for young neurosurgeons we began to publish in 1974 this series of Advances and Technical Standards in Neurosurgery which was later sponsored by the European Association of Neurosurgical Societies This series was first discussed in 1972 at a combined meeting of the Italian and German Neurosurgical Societies in Taormina the founding fathers of the series being Jean Brihaye Bernard Pertuiset Fritz Loew and of European co Hugo Krayenbühl Thus were established the principles operation which have been born from the European spirit flourished in the European Association and have throughout been associated with this series The fact that the English language is well on the way to becoming the international medium at European scientific

conferences is a great asset in terms of mutual understanding Therefore we have decided to publish all contributions in English regardless of the native language of the authors All contributions are submitted to the entire editorial board before publication of any volume Our series is not intended to compete with the publications of original scientific papers in other neurosurgical journals Our intention is rather to present fields of neurosurgery and related areas in which important recent advances have been made The contributions are written by specialists in the given fields and constitute the first part of each volume

Neuroanatomy Guidance to Successful Neurosurgical Interventions Imad N. Kanaan, Vladimír Beneš, 2024-11-08 This unique book covers a wide spectrum of neurosurgical science and practice Authored by world renowned neurosurgeons it aims to bridge the gap between practical anatomy and the recent advances in neurosurgical interventions A special section on neurovascular surgery demonstrates the surgical skills required and challenges faced during surgery of complex aneurysms vascular malformations and options for special revascularization procedures Distinctive chapters highlight the anatomical landmarks for tailored microsurgical and endoscopic approaches to skull base ventricular and spinal tumors This textbook outlines the role of white matter dissection in glioma and epilepsy surgery with an update on functional and peripheral nerves neurosurgery and a special chapter on the anticipation and management of complications in adult and paediatric neurosurgery

Cranial, Craniofacial and Skull Base Surgery Paolo Cappabianca, Luigi Califano, Giorgio Iaconetta, 2010-11-01 The Fruits of Reinvention Surgery related to the human head its compartment and contents has been reinvented over the past 40 years A number of instruments most notably the sophisticated medical imaging device and the operating microscope have principally fueled this evolution Along the way endoscopy and sophisticated navigation capabilities have added to the realization of a unique comprehension of normal and abnormal microanatomy permitting corridors and manipulations that allow novel strategies for surgery in these highly vital functional areas Cappabianca Califano and Iaconetta have created a detailed and fully modern review of methods and strategies related to complex surgery and therapies associated with this robust reinvention Technical innovations abound Distinguished practitioners of these unique developments in the history of surgical enterprise present these amazing technical exercises The catalog of these approaches instrumentation techniques strategies and manipulations is inspiring and stands as a testimony to the remarkable progress that we have witnessed in recent decades The presentation is truly modern and represents in many aspects pinnacles of operative achievement We must ask ourselves what will be next Los Angeles November 2009 Michael L J Apuzzo M D Ph D hon Preface We belong to a lucky and happy generation living during a period of many dramatic if not revolutionary technical and technological innovations such as the digital era which have changed and improved our routine surgical practice together with the quality and quantity of life of our patients

Minimally Invasive Neurosurgery Mark R. Proctor, 2007-11-23 Recognized clinical leaders in neurosurgery and neuroradiology review the cutting edge techniques and technologies now available and describe how minimally invasive techniques have influenced

their subspecialties On the radiology side the authors explain the latest developments in magnetic resonance spectroscopy functional imaging and brain mapping with emphasis on the application of image navigation directly in the operating room using both preoperative and intraoperative systems On the surgical side some of the world's leading surgeons in pediatric neurosurgery cerebrovascular surgery neurosurgical oncology spinal and peripheral nerve surgery and trauma surgery detail how they use the powerful new minimally invasive techniques in their own practices Among the novel approaches discussed are radiofrequency radiosurgery thermal therapy and minimally invasive techniques that allow molecular neurosurgery via gene and viral vectors and local delivery systems

Neuroendoscopy Spyros Sgouros, 2013-11-22 As a result of technological improvements neuroendoscopy is now used in the treatment of many more patients enabling the performance of previously unavailable operations with low complication rates and rapid patient recovery This book presents the distilled experience of world experts in this evolving field Current applications in a wide variety of settings are explained in detail and likely future developments are identified In addition the available neuroendoscopic instruments are reviewed and the results of international trials and collaborative studies presented This book will fully acquaint the reader with the breadth and depth of available neuroendoscopy techniques and their impressive therapeutic potential It should serve as the reference book on neuroendoscopy for the next 10 years

Transendoscopic Ultrasound for Neurosurgery Klaus Dieter Maria Resch, 2005-12-29 The new technique is explained in a simple language in detail Furthermore Resch provides a guide to the necessary equipment 50 typical neurosurgical indications are presented comparing both real anatomical endoscopic pictures of the lesion and its immediate environment to endosonographic images of the same Includes chapter on the outlook and future concepts on minimally invasive neurosurgery

Cranio-Orbital Mass Lesions Giulio Bonavolontà, Francesco Maiuri, Giuseppe Mariniello, 2023-09-01 This book fills a gap in the field of the cranio orbital lesions as it deals only with mass lesions involving both the intracranial and intra orbital compartments The surgical anatomy diagnosis surgical approaches and specified pathological mass lesions are described in detail The book includes four parts Part 1 is devoted to the surgical anatomy of the orbital region Part 2 to the clinical and neuroradiological examination of the cranio orbital mass lesions Part 3 discusses the surgical approaches both trans cranial and transorbital and microscopic and endoscopic focusing on the surgical techniques their indications advantages limitations and complications Finally part 4 discusses the single pathological mass lesions their anatomic clinical and radiological aspects and the best surgical approaches Aim of this book is to illustrate the best surgical approaches according to prevalent intracranial or intra orbital extension and the type of the mass lesions

Explicative Cases of Controversial Issues in Neurosurgery Francesco Signorelli, 2012-05-23 Neurosurgery is a rapidly developing field of medicine Therefore staying keeping track of the advancements in the field is paramount for trainees as well as fully trained neurosurgeons This book fully available online is a part of our effort of improving availability of medical information for anyone who needs to keep up to date

Comprehensive Overview of Modern Surgical

Approaches to Intrinsic Brain Tumors Kaisorn Chaichana, Alfredo Quinones-Hinojosa, 2019-02-28 Comprehensive Overview of Modern Surgical Approaches to Intrinsic Brain Tumors addresses limitations in the scientific literature by focusing primarily on surgical approaches to various intrinsic neoplasms using diagrams and step by step instructions It provides the advantages and disadvantages of these approaches controversies and technical considerations and discusses topics such as anatomy pathology and animal models imaging open brain tumor approaches and minimally invasive approaches Additionally it discusses controversial treatments and the pros and cons of each This book is a valuable source for medical students neurosurgeons and any healthcare provider who has an interest in brain tumors and techniques to treat them Provides a comprehensive review of different approaches explaining them step by step Includes diagrams that show surgical approaches Presents the advantages and disadvantages of each approach to aid in decision making *Endoscopic Surgery of the Orbit E-Book* Raj Sindwani, 2020-05-24 Endoscopic orbital procedures are at the forefront of today's multidisciplinary patient care and team approach to problem solving Endoscopic Surgery of the Orbit offers state of the art expert guidance on minimally invasive orbit techniques that promise a more streamlined approach to comprehensive patient care improved patient satisfaction and superior outcomes This unique resource reflects the contemporary unparalleled partnership between otolaryngology neurosurgery and ophthalmology that often also includes a cohesive team of clinicians from many other specialties Provides expert perspectives from thought leaders in various specialties including otolaryngologists ophthalmologists neurosurgeons endocrinologists medical and radiation oncologists radiologists and pathologists Details the two surgeon multi handed surgical techniques that have revolutionized the management of complex pathologies involving the orbit and skull base Covers the full breadth of endoscopic orbital procedures from advanced intraconal tumor removal and intracranial techniques involving the optic nerve and optic chiasm to more routine endoscopic procedures such as orbital decompressions E DCR fracture repair and subperiosteal abscess drainage Reviews key topics such as neuromonitoring in orbital and skull base surgery endoscopic surgery of the intraconal space for tumor resection Transorbital NeuroEndoscopic Surgery TONES and reconstruction of the orbit Includes tips and pearls on safe and effective procedures as well as novel approaches and innovations in the equipment used to perform these popular procedures Provides superb visual reinforcement with more than 400 high definition images of anatomy imaging and surgical techniques as well as procedural videos **Essentials of Neuroanesthesia** Hemanshu Prabhakar, 2017-03-24 Essentials of Neuroanesthesia offers useful insights on the anesthetic management of neurosurgical and neurologic patients This book covers all topics related to neuroanesthesia providing essential knowledge on the brain and spinal cord Sections include chapters on anatomy physiology and pharmacology along with specific chapters related to various neurosurgical and neurological problems and their anesthetic management This book provides an understanding of related issues such as palliative care evidence based practice of neuroanesthesia sterilization techniques biostatistics and ethical issues and is useful for trainees clinicians and

researchers in the fields of neurosurgery neurocritical care neuroanesthesia and neurology Offers useful insights on the anesthetic management of neurosurgical and neurologic patients Discusses related issues such as palliative care evidence based practice of neuroanesthesia sterilization techniques biostatistics and ethical issues Useful for trainees clinicians and researchers in the fields of neurosurgery neurocritical care neuroanesthesia and neurology

Contemporary Skull Base Surgery A. Samy Youssef, 2022-07-05 This text is designed to function as a comprehensive guide companion that will not only facilitate the decision making process for the surgeon but also help young surgeons build a successful career in skull base surgery It is divided into six main sections The first section details the general principles that every skull base surgeon needs to be acquainted with skull base anatomy developing a multidisciplinary skull base team operating room equipment surgical instruments and modern imaging technologies These are the key elements that play a major role in optimizing functional outcomes and patients quality of life Following this the compartmental anatomy chapters set the stage for understanding the technical and surgical nuances of each location The subsequent five sections are organized as anatomical compartments or regions of the skull base Every region is organized in the same format for uniformity and ease of use Each section includes the available treatment choices to each compartment and describes the relevant pathologies The contribution of worldwide leaders including neurosurgeons and otolaryngologists provides top level expertise in how to tackle each pathology The surgical approaches chapters that lead each anatomical section describe operative techniques in a clear stepwise fashion with accompanying intra operative photos and surgical videos In the individual pathology chapters different pathological subtypes are described with representative radiographic images of clinical case examples Accompanying each pathology is a treatment algorithm based on tumor morphology pre operative clinical status and the goal of maximum functional preservation with a brief description of surgical approaches This will serve as a roadmap that will help the reader to easily reach a decision of how to treat each skull base pathology The general theme is functional and anatomical preservation of key neurovascular structures Setting such structures as a target and planning an approach that minimizes iatrogenic damage to these structures will lead the surgeon down the road of either open endoscopic or a combination of both approaches A comprehensive book that is versatile to serve as a handbook as well as a detailed reference for skull base surgery does not currently exist In addition combining the two main surgical schools represented by endoscopy and open surgery into one reference enhanced by treatment algorithms is another unique feature

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