

Cranial Microsurgery Approaches And Techniques

Principles of Neurological SurgeryAtlas of Microsurgery of the Lateral Skull BaseCranial, Craniofacial and Skull Base SurgeryPractical Neurotology and Skull Base SurgeryMicrosurgical Anatomy and Surgery of the Posterior Cranial FossaEndoscopyCore Techniques in Operative Neurosurgery E-BookThe Microsurgical Approaches to the Target Areas of the BrainThe Cavernous SinusPrinciples of Neurological Surgery E-BookControversies in NeuroendoscopyControversies in Skull Base SurgeryMicroneurosurgery of CNS TumorsNMCMicrosurgeryYoumans Neurological SurgeryCranial MicrosurgeryMicrosurgery of Skull Base ParagangliomasMicrosurgery of the Skull BaseTextbooks of Operative Neurosurgery (2 Vol.)Endoscopic and Keyhole Cranial Base SurgeryAnatomical Basis of Cranial NeurosurgeryPrinciples of Posterior Fossa SurgeryPhoto Atlas of Skull Base DissectionTranssphenoidal SurgeryMicrosurgical Anatomy and Surgery of the Posterior Cranial FossaRhoton's Cranial Anatomy and Surgical ApproachesEndoscopic Approaches to the Skull BaseEndoscopic Skull Base SurgeryColor Atlas of Head and Neck SurgeryAtlas of Neurosurgical TechniquesMaster Techniques in Otolarygologic Surgery: Skull Base SurgeryIntraoperative Monitoring Techniques in NeurosurgeryKeyhole Approaches in NeurosurgerySkull Base Surgery: StrategiesSamii's Essentials in NeurosurgeryTransnasal Endoscopic

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Skull Base and Brain Surgery
Endocrinology - E-Book
Neurosurgery Tricks of the Trade
Endoscopic Approaches to the Paranasal Sinuses and Skull Base

Principles of Neurological Surgery

In this completely revised and enlarged new edition, Professor Sanna and his team provide systematic demonstrations of the major lateral skull base approaches, drawing from 20 years of experience of the eminent Gruppo Otologico located in Piacenza, Italy. Key features: Introductory chapters on the general principles, instrumentation, and special considerations that characterize this type of surgery Discussion of the radiology of skull base lesions as it relates to surgery, with particular emphasis on findings that can influence the choice of surgical approach, alter the course of surgery, or affect the prognosis Actual demonstrations of the anatomy seen during the different surgical approach -- standard anatomy textbooks fail to address this issue For each approach, step-by-step descriptions of the surgical technique and numerous clinical cases representing the most commonly encountered lesions so that the reader receives a comprehensive understanding of how to perform the approach and what to expect during surgery Pearls and Pitfalls at the end of most chapters gathered from the vast number of cases managed throughout the years by the authors and included to help others avoid mistakes Over 1300 superb and instructive illustrations consisting of photographs of live surgery and cadaver dissections, radiologic images, and drawings This essential text

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also covers other must-know, highly advanced topics, including: Combined approaches providing the necessary route to manage certain extensive skull base tumors that represent particular challenges Management strategies for different skull base lesions (e.g., surgical vs. nonsurgical management, the different factors that determine the choice of the surgical approach, cases that are managed conservatively or with radiosurgery) Management of the internal carotid artery in skull base surgery, including the new technique of using stents to facilitate tumor dissection from the internal carotid artery This outstanding surgical atlas is invaluable for any surgeon who seeks not only to master the different surgical approaches but also to grasp the real essence of skull base surgery. Dr. Sanna is part of The Gruppo Otologico, a world-renowned specialist center for the diagnosis and medical and surgical treatment of diseases of the ear, skull base, facial nerve, head and neck, and paranasal sinuses. More information is available on the group's website, www.gruppootologico.it/eng.

Atlas of Microsurgery of the Lateral Skull Base

The ability to operate successfully in the posterior fossa requires a thorough understanding of its neuroanatomy and physiology, accurate localization of lesions, and optimal surgical technique. Principles of Posterior Fossa Surgery provides an in-depth review of this complex surgical region, with detailed coverage of anatomy, pathology, imaging, disease-

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based management, and surgical approaches. Written by a team of highly respected specialists, it will be a valued reference and refresher for clinicians who perform posterior fossa surgery, as well as for trainees. Special Features: Begins with a useful framework in neuroimaging, neuropathology, and microsurgical anatomy of the posterior cranial fossa Covers a wide range of approaches and pathologies in the region, including congenital Chiari malformations, infections, trauma, aneurysms, and tumors Highlights the anatomy of common surgical approaches, with numerous radiographic and endoscopic images that aid in visualizing concepts Provides full coverage of surgical techniques, starting with basic concepts and progressing to operations on more challenging entities like petroclival meningiomas, jugular bulb tumors, acoustic neuromas, complex basilar aneurysms, and posterior circulation aneurysms Includes comprehensive sections on surgical management of pediatric posterior fossa tumors and shunt surgery for lesions Shares the insights of prominent neurosurgeons from top centers around the world, who discuss their preferred strategies for tackling this challenging area of the brain Focusing solely on the posterior fossa, this book fills an important gap for neurosurgeons, skull base specialists, and residents and fellows who are training in this anatomically challenging region. It will enrich their understanding and knowledge of the field, expand their surgical armamentarium, and help achieve the most successful clinical outcomes.

Cranial, Craniofacial and Skull Base

Surgery

During the last decade the endoscopic endonasal approach (EEA) to the skull base has become a very powerful method to add to the array of neurosurgical technologies. This volume provides a broad overview of the role of transnasal approaches in a wide spectrum of skull base diseases. It starts with a historical perspective of the evolution from the microscope to the endoscope in endonasal surgery and then explores in depth the principles and techniques of the various methods. Discussed are topics based on anatomical boundaries: pituitary fossa to the suprasellar space to the cavernous sinus, clivus and the anterior cranial fossa. Access to the infratemporal and posterior fossae via both the endoscopic endonasal and the retrosigmoid approaches are reviewed. In addition, the critical topic of reconstruction following 'minimally invasive' skull base surgery and finally the learning curve and complications associated with the applications of these new and exciting approaches are discussed. This volume will provide the latest knowledge to help neurosurgeons, otolaryngologists, head and neck surgeons as well as craniofacial surgeons understand the applications and practice of this important technique.

Practical Neurotology and Skull Base Surgery

A unique perspective on neuroendoscopic versus microsurgical techniques from world-renowned

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neurosurgeons In the last two decades, neuroendoscopy has evolved from a fringe neurosurgical tool to an established subspecialty focusing on the treatment of diverse cranial and spinal diseases. Today, neuroendoscopic technology is widely used to treat supratentorial diseases, skull base pathologies, craniocervical diseases, and spinal pathologies. Despite the expanded use of neuroendoscopy across several subspecialties, its benefits and disadvantages versus those of traditional microsurgical methods remain highly controversial. Contradictory evidence in the neurosurgical literature adds to the surgical decision-making challenges for veteran and novice practitioners alike. Controversies in Neuroendoscopy by Peter Nakaji and Hasan Zaidi fills an unmet need for a book encompassing best practices, patient selection, and limitations and advantages of neuroendoscopic surgical approaches. Each case presents firsthand knowledge of internationally esteemed neurosurgeons, with a moderator, an endoscopic expert, and an expert in traditional microsurgical approaches. The unique discussion of neuroendoscopy versus microsurgery enables readers to compare the benefits and pitfalls of endoscopic and open microsurgical procedures for a wide range of conditions. In-depth comparative guidance on applications of the flexible endoscope, rigid endoscope, 3D endoscope, and high-definition 2D endoscope versus the microscope A full spectrum of neurological conditions across the age continuum with comparative approaches for skull base surgery, pituitary surgery, hydrocephalus, spinal surgery, peripheral nerve surgery, and arachnoid cyst fenestration Radiological imaging and intraoperative

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photographs enhance cases and provide precise, insightful technical guidance High-quality color illustrations from the skilled medical illustrators at Barrow Neurological Institute reinforce key points and surgical techniques Neurosurgery residents, neurosurgeons, and spine surgeons will all benefit from reading this remarkable book cover to cover, and they will no doubt use it as a go-to resource for specific cases. This book includes complimentary access to a digital copy on <https://medone.thieme.com>.

Microsurgical Anatomy and Surgery of the Posterior Cranial Fossa

Endoscopy

Drawing on decades of experience and wisdom, Dr. Ugo Fisch created this classic text/atlas on microsurgical procedures for the skull base. The authors have labored not to popularize skull base surgery, but to provide the details of each operation, giving surgeons the valuable information they need. Each chapter of the text discusses a specific procedure and is divided into two sections, covering both the general surgical steps of the procedure and also its application. Within each chapter you'll find: general considerations; surgical techniques; applications; tips and pratfalls; imaging scans of illustrative cases; and color plates of pre- and post-operative preparation and instrumentation. The final two chapters discuss anesthesia issues and the

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impact of neuroradiology on skull base surgery. All of the cases used in the book reflect actual procedures, not hypothetical situations. All neurosurgeons and otolaryngologists involved in skull base surgery will benefit from having this classic text in their professional library. It demonstrates the procedures that have proven to be both safe and reliable through the years.

Core Techniques in Operative Neurosurgery E-Book

This book describes the anatomy of the posterior fossa, together with the main associated surgical techniques, which are detailed in numerous photographs and step-by-step color illustrations. The book presents approaches and surgical techniques such as the trans-cerebellomedullary fissure approach and its variation to the fourth ventricle, as well as the cerebellomedullary cistern, infratentorial lateral supracerebellar approach to the fifth cranial nerve in the upper cerebellopontine angle, infrafloccular approach to the root exit zone of the seventh cranial nerve, transcondylar fossa approach through the lateral part of the foramen magnum, and the stitched sling retraction technique utilized during microvascular decompression procedures for trigeminal neuralgia and hemifacial spasm. It also describes in detail the bridging veins of the posterior fossa, especially the petrosal vein, and bridging veins to the tentorial sinuses, which can block approaches to the affected area. Each chapter begins with an anatomical description of the posterior fossa, after

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which the respective surgical approaches are explained in an easy-to-follow manner. The original Japanese version of this work was published 8 years ago, and has established itself as a trusted guide, especially among young neurosurgeons who need to study various surgical approaches and techniques. In the course of being translated into English, some sections have been revised and new information has been added. The author hopes that the book will help neurosurgeons around the world perform safer operations with confidence.

The Microsurgical Approaches to the Target Areas of the Brain

Whatever you may say about Professor Samii, his take on neurosurgery cannot be ignored. In this book readers will find pieces that express the philosophy of the most well-known 'Neurosurgical School'. International experts present Professor Samii's teaching and philosophy in dealing with the most difficult neurosurgical pathologies as well as future developments. Basic concepts in neurosurgical sciences, modern surgical techniques and cutting-edge technology are presented in detail.

The Cavernous Sinus

ritten by leading authorities from all over the world, this volume is a comprehensive, thoroughly illustrated text on the cavernous sinus. The book provides surgeons with the know how to plan and perform successful operative procedures in this region using

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today's microsurgical instrumentation and skull base surgical approaches. Coverage encompasses a wide range of topics including basic science, anatomy, diagnosis, treatment, and vascular, neoplastic, traumatic, and inflammatory diseases of the cavernous sinus. More than 400 illustrations, including nearly 200 full-color photographs, complement the text

Principles of Neurological Surgery E-Book

Praise for this book:[Four stars] Populated with superb pictures of anatomical dissections highly recommend[ed]to any clinician dealing with skull base conditions.--Doody's Review A richly illustrated, step-by-step guide to the full range of approaches in skull base surgery, this book is designed to enable the surgeon to gain not only the technical expertise for common procedures, but to be able to confidently modify standard approaches when necessary. Full-color images of cadavers orient the surgeon to the clinical setting by presenting in precise detail the perspective encountered in the operating room. The images demonstrate surgical anatomy and the relevant structures adjacent to the exposures. Special emphasis on the relationship between the operative corridor and the surrounding anatomy helps the surgeon develop a clear understanding of whether tissues adjacent to the dissection can be exposed without complications. Features: More than 1,000 high-quality images demonstrate key concepts Brief lists of Key Steps guide the surgeon through each step of the

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dissection Concise text supplements each photograph, providing descriptions of technical maneuvers and clinical pearls Coverage of the latest innovative approaches enables surgeons to optimize clinical techniques Through detailed coverage of surgical anatomy and relevant adjacent structures, this book enables clinicians to develop a solid understanding of the entire operative region as well as the limits and possibilities of each skull base approach. It is an indispensable reference for neurosurgeons, head and neck surgeons, and otolaryngologists, and residents in these specialties.

Controversies in Neuroendoscopy

Representing the pinnacle of skull base surgery, paraganglioma management requires the advanced surgical skills and expertise that are presented by Dr. Mario Sanna and his team in this comprehensive reference. It incorporates extensive surgical and radiological data compiled over 20 years at the preeminent Gruppo Otologica Clinic in Piacenza, Italy, and features the exquisite intraoperative photographs and schematic diagrams that are a hallmark of the highly regarded Sanna texts. All head and neck and skull base surgeons will find their knowledge, technical proficiency, and ability to manage these challenging tumors vastly increased by this informative resource. Special Features Step-by-step descriptions of the full range of head and neck paraganglioma procedures, including the infratemporal fossa approach type A, the extreme lateral approach, and the transcervical approach, plus

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guidance on managing complex tympanojugular paragangliomas More than 1,800 clearly labeled, high-quality intraoperative photographs correlated to full-color schematic drawings for an in-depth understanding of techniques Detailed discussion of managing the internal carotid artery during procedures, including the neuroradiological use of stents Pathology-oriented structure that allows the reader to identify a lesion at a particular stage and then follow the critical thinking, assessment, pre-operative management, and intra-operative course taken by the surgeon Comprehensive sections on pathology, physiology, anatomy, epidemiology, and new genetic breakthroughs that lay the groundwork for the surgical chapters Tips, hints, and pitfalls at the end of each chapter that offer valuable insights for managing different clinical scenarios Demonstrating the complex decision-making process in many actual cases and offering practical advice for handling complications, this book puts the reader into the operating room with the surgeon. It is indispensable for all head and neck and skull base surgeons who manage paragangliomas and related pathologies, as well as for otolaryngologists, neurosurgeons, maxillofacial surgeons, radiologists, and interventional radiologists involved in assessing these intricate conditions.

Controversies in Skull Base Surgery

Contains the proceedings of the 12th- annual meeting of the Japan Neurosurgical Society.

Microneurosurgery of CNS Tumors

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.

NMC

Unique skull-base surgical resource features strategic, technical, and philosophical pearls from master surgeons In a sense, surgeons go into battle every time they enter the OR. Like soldiers, they must be prepared to make profound sacrifices to protect innocent people (their patients), while putting egos aside and resisting the call of fame. Skull Base Surgery: Strategies by Walter Jean and distinguished contributors provides eloquent expression to the inner voices that speak to surgeons during each stage of battle. Unlike other textbooks that only emphasize the technical building blocks surgeons need, this resource

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focuses on state-of-the-art skull-base procedures, important thought processes, and vital strategies required to perform them. Size and shape variations, diverse biological characteristics, different anatomic locations and extensions, and specific relationships and entanglements with nerves and vessels make all skull base tumors unique and highly challenging. In addition to anatomy, two other important factors need to be considered every time a surgeon enters the OR – the particular circumstances of the patient and surgeon. Throughout this remarkable book, master neurosurgeons take readers on an insightful journey exploring the decision-making process of choosing and executing a surgical approach, with firsthand pearls from the battlefield. Key Highlights

Nine sections organized by anatomy cover tumors in the anterior, anterolateral, lateral, central, postero-superior, and postero-inferior skull base regions, and clivus, petrous bone, and ventricles

Thirty-two systematically organized chapters flow from clinical presentation and radiographic/anatomical findings of specific patients and tumors – to decision-making and execution of the surgical approach

Real-life cases enhance understanding of all the elements that go into each operation

Perspectives sections at the end of each chapter embrace the concept of diverse surgeon viewpoints on similar ideas, techniques, and approaches

This exemplary book is essential reading for neurosurgery and otolaryngology residents, fellows, veteran practitioners, and allied health personnel who care for patients with skull base tumors.

Microsurgery

State-of-the-art approaches and insightful discussions on challenging topics in skull base surgery. Advances in endoscopic, microsurgical, radiosurgical, and pharmacotherapeutic strategies have revolutionized the treatment of skull base pathologies. *Controversies in Skull Base Surgery*, edited by Andrew Little and Michael Mooney and authored by esteemed multidisciplinary contributors, focuses on management strategies and treatment options for a wide range of tumors affecting the skull base, while addressing the most urgent and challenging questions facing skull base surgeons today. Throughout nine sections and 46 chapters, experts describe the treatment of neoplasms such as vestibular schwannoma, meningioma, pituitary adenoma, craniopharyngioma, chordoma, cranial nerve schwannoma, sinonasal malignancies, and others. In many chapters, authors provide instructional case studies and suggestions for future studies to help clarify areas of controversy. This textbook is unique in that it tackles problems typically minimized or ignored by other texts that impact a patient's quality of life and recovery. Key Highlights Reader-friendly tables feature concise summaries, author pearls, and levels of available evidence. Pearls and insights on hotly debated issues such as the role of radiosurgery, surgery vs. medical management, radical resection vs. subtotal resection, and proton-beam vs. photon therapy for various pathologic conditions. Controversies not frequently discussed in depth, including the use of lumbar drains, postoperative

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antibiotics, and cerebral revascularization in skull base surgery; multidisciplinary collaboration in endoscopic endonasal surgery; skull base reconstruction techniques; and the future of robotics in skull base surgery This stellar resource will benefit all residents and advanced practice providers who evaluate and treat patients with skull base pathologies, including neurosurgeons, otolaryngologists, and radiation and medical oncologists.

Youmans Neurological Surgery

Perfect for anyone considering or training in this challenging specialty, *Principles of Neurological Surgery, 4th Edition*, by Drs. Richard G. Ellenbogen, Laligam N. Sekhar, and Neil Kitchen, provides a clear, superbly illustrated introduction to all aspects of neurosurgery—from general principles to specific techniques. Thorough updates from leading authors ensure that you'll stay abreast of the latest advances in every area of neurosurgery, including pre- and post-operative patient care, neuroradiology, pediatric neurosurgery, neurovascular surgery, trauma surgery, spine surgery, oncology, pituitary adenomas, cranial base neurosurgery, image-guided neurosurgery, treatment of pain, epilepsy surgery, and much more.

Cranial Microsurgery

With the continuing evolution of endoscopic techniques for surgery of lesions of the paranasal sinuses and skull base, and the reduced morbidity

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associated with this minimally invasive modality, the method has gained widespread use in recent years. This work offers a thorough review of all endoscopic approaches for access to the nose and paranasal sinuses and, through them, to the skull base. Central to this guide is the emphasis on profound knowledge of the complex anatomy in this area, as well as the many vital structures that can be endangered there. To this end, more than 900 full-color images, most photographs from cadaver dissections, are put to brilliant use. Key Features: Internationally renowned specialists and pioneers from Europe and the United States as editors and contributors Full-color photos from fresh cadaver dissections illustrate all steps for each approach Specific anatomic landmarks as revealed during each step are detailed, providing confidence in spatial orientation Correlative CT sections provide crucial additional information Risks and potential complications are included, as well as methods to reduce them Endoscopic Approaches to the Paranasal Sinuses and Skull Base is intended as an indispensable guide for residents, fellows, and specialist surgeons in otolaryngology, neurosurgery, and skull base surgery.

Microsurgery of Skull Base Paragangliomas

Endoscopy is a fast moving field, and new techniques are continuously emerging. In recent decades, endoscopy has evolved and branched out from a diagnostic modality to enhanced video and computer assisting imaging with impressive interventional

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capabilities. The modern endoscopy has seen advances not only in types of endoscopes available, but also in types of interventions amenable to the endoscopic approach. To date, there are a lot more developments that are being trialed. Modern endoscopic equipment provides physicians with the benefit of many technical advances. Endoscopy is an effective and safe procedure even in special populations including pediatric patients and renal transplant patients. It serves as the tool for diagnosis and therapeutic interventions of many organs including gastrointestinal tract, head and neck, urinary tract and others.

Microsurgery of the Skull Base

This new volume in the MTOS - Head and Neck Surgery Series edited by Eugene Myers, MD presents both the common and advanced procedures in skull base surgery and appeals to both the specialist and the generalist. It covers over 45 procedures and describes both open and minimally invasive approaches to the skull base. Key Features: Authors are world renowned experts in the field Comprehensive coverage of open and minimally invasive techniques Edited by pioneers and leaders in the development of the endoscopic endonasal approach Each chapter follows a tightly designed format with a focus on "how to do it" Includes step-by-step instructions for each procedure Each technique is extensively supplemented with over 1500 color intraoperative photographs and line drawings

Textbooks of Operative Neurosurgery (2 Vol.)

ENDOCRINOLOGY, edited by J. Larry Jameson, MD, PhD and Leslie J. De Groot, MD, has been considered the definitive source in its field for decades. Now this landmark reference has been exhaustively updated to bring you the latest clinical guidance on all aspects of diagnosis and treatment for the full range of endocrine and metabolism disorders, including new information on diabetes, obesity, MEN I and II, disorders of sex determination, and pituitary tumors. Entirely new chapters on Lipodystrophy Syndromes, Lipoprotein Metabolism, and Genetic Disorders of Phosphate Homeostasis keep you well informed on today's hot topics. You'll benefit from unique, global perspectives on adult and pediatric endocrinology prepared by an international team of renowned authorities. This reference is optimally designed to help you succeed in your demanding practice and ensure the best possible outcomes for every patient. Overcome virtually any clinical challenge with detailed, expert coverage of every area of endocrinology, authored by hundreds of leading luminaries in the field. Provide state-of-the-art care with comprehensive updates on diabetes, obesity, MEN I and II, disorders of sex determination, and pituitary tumors brand-new chapters on Lipodystrophy Syndromes, Lipoprotein Metabolism, and Genetic Disorders of Phosphate Homeostasis expanded coverage of sports performance, including testosterone, androgen research, and bone growth and deterioration and the newest discoveries in

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genetics and how they affect patient care. Make the best clinical decisions with an enhanced emphasis on evidence-based practice in conjunction with expert opinion. Rapidly consult with trusted authorities thanks to new expert-opinion treatment strategies and recommendations. Zero in on the most relevant and useful references with the aid of a more focused, concise bibliography. Locate information more quickly, while still getting the complete coverage you expect.

Endoscopic and Keyhole Cranial Base Surgery

This work details contemporary clinical knowledge on the multidisciplinary management of pituitary and other sellar/parasellar tumors, with a focus on surgical techniques and a particular emphasis on complication avoidance and management. International experts provide guidance on natural history, radiologic and clinical aspects, surgical indications, and resection techniques. In addition, case presentations and clinical photographs help the reader reduce the risk of error and advance their own surgical skills. Readers also have access online to streaming videos of key procedures to help them provide the best possible outcomes for every patient. Transsphenoidal Surgery: Complication Avoidance and Management Techniques will be of great value to Neurosurgeons, Otolaryngologists, Endocrinologists, Radiation Oncologists, and residents and fellows in these specialties.

Anatomical Basis of Cranial Neurosurgery

This four-volume set is a comprehensive guide to the diagnosis and management of neurosurgical problems, signs and symptoms, diagnostic methods, prognoses, and cutting-edge operative techniques, as well as anatomy and physiology. This 5th Edition is reorganized to follow a more logical and modern approach. "There is no doubt that Neurological Surgery is the grand dame of the major neurosurgical textbooks and is recommended without hesitation."--JAMA, review of previous edition. Neurological Surgery is still a definitive source of advice and information on neurosurgical disorders covering every aspect as well as surgical techniques. The scope of coverage consists of history, basic science, patient evaluation and surgical techniques and considerations. New topics includes

• A major revision team comprised from two editors (an experienced veteran of the field and an emerging talent) have extensively revised this new edition. Winn provides detailed underlying scientific basis for the etiology, pathophysiology and diagnosis of neurosurgical disease. The text has been completely reorganized for more convenient reference. For each major area of neurological surgery, it explores general and historical considerations • basic science topics • and specific approaches to patient evaluation, followed by surgical considerations and techniques for the full range of individual pathologic entities. Brand new chapters are indicated by asterisks on the attached Table of Contents. A brand-new team of

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nationally renowned editors and contributors, led by H. Richard Winn, provides new expertise and fresh perspectives. Also available as a multimedia e-dition! See Companion Products for more information.

Principles of Posterior Fossa Surgery

Core Techniques in Operative Neurosurgery provides step-by-step guidance to help you effectively manage the full range of cranial and spinal neurosurgical disorders. Drs. Rahul Jandial, Paul McCormick, and Peter Black offer their expertise and experience in consistent chapters that cover the indications and contraindications, pitfalls, tips and tricks, and more for each procedure. With access to the full text and procedural videos online at www.expertconsult.com, you'll have everything you need to minimize risk and get the best results. Master each technique by watching step-by-step videos online at www.expertconsult.com, and access the book's complete text and illustrations. Find information easily with consistent chapters that include indications and contraindications, common pitfalls, bailout options, and tips and tricks from the experts for each procedure. Apply the expertise and experience of the world's leading authorities in the field of neurosurgery.

Photo Atlas of Skull Base Dissection

Preface Drawings and scripts were selected from those tion of the operative routes and their alternatives which were produced by the author in the

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last for well-defined anatomical target areas alone. This three years to help educate young neurosurgeons viewpoint becomes more and more important, be in Freiburg and in other clinics. cause today there is no anatomical structure of the This programm for education may be managed in 2 brain which cannot be approached with a minimal steps: risk for surviving the operation. But more and more - Learning techniques for performing of trepana the risk for neurological or psychological postopera tions from opening of the skin onto dura incision tive complications will rise if the anatomical and (step 1) neurophysiological knowledge is insufficient. These - Learning of techniques for routine operations viewpoints are most important in operations at the (e. g. , for extirpation of gliomas of cerebral lobes) cranial base and operations transcrossing midline (step 2) structures of the brain. An intensive anatomical - Learning of techniques for operative approach es training helps to understand MRI before opera in problematic areas of the cranial and cerebral tion. Often the modern MRI demonstrates more base and of the midline, especially for the often anatomical details than the unexperienced neurosur performed operations, e. g. for basal meningeo geon has understood.

Transsphenoidal Surgery

Rev. ed. of: Principles of neurosurgery / edited by Setti S. Rengachary, Richard G. Ellenbogen. 2nd ed. 2005.

Microsurgical Anatomy and Surgery of the Posterior Cranial Fossa

Rhoton's Cranial Anatomy and Surgical Approaches

Microsurgery Applied to Neurosurgery focuses on microsurgical approaches to cerebrospinal lesions, including plastic surgery, suturing techniques, instruments for microsurgery, and microsurgical operations. The manuscript first offers information on the history of microsurgery and the operating microscope. Discussions focus on bipolar electric coagulation, plastic surgery, peripheral nerves, clinical application, binocular diploscope, automatic microscope stand, sterile covering of the microscope, and magnification. The text also elaborates on the instruments for microsurgery and suturing techniques. The publication takes a look at experimental microsurgical operations in animals and reconstructive and constructive surgery of the cerebral arteries in man. The manuscript also ponders on intracranial tumors and transnasal-transsphenoidal approach to the pituitary gland. Topics include transsphenoidal approach, suboccipital transmeatal approach, spinal tumors, and preoperative radiological study. The manuscript is a dependable reference for health professionals and readers interested in microsurgery.

Endoscopic Approaches to the Skull Base

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"The authors have definitely achieved their goal of providing a reference that is easy for both the expert surgeon and the neurosurgeon in training to consult in daily clinical practice ."-Child's Nervous System This important work - featuring complete information on all cranial approaches and techniques, and more than 2000 four-color photographs- marks a new level of achievement in neurosurgery publishing. Superbly conceived and designed, CRANIAL MICROSURGERY leads the neurosurgeon through each procedure in step-by-step detail, and brings together complete coverage of both surgical anatomy and real operative cases. This synthesis of anatomical information and extensive case-based data (including diagnostic histories, radiographic images, and intraoperative photographs) sets the book apart from other works in the field, and will be helpful to neurosurgeons at all levels.

Endoscopic Skull Base Surgery

This didactic book clearly and systematically describes the anatomical-surgical fundamentals of cranial neurosurgery, relating them to norm variants, imaging modalities and interdisciplinary aspects. All illustrations, hand drawn in ink by the first author, are simple and self-explanatory. The book reflects the first author's lifetime experience as an academic neurosurgeon and teacher, as well as the second author's theoretical and practical knowledge of neurosurgical subspecialties such as epilepsy surgery. In addition to its core audience in neurosurgery, it provides all connected disciplines, in particular

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neuroradiology, neurology, neuropathology, ENT surgery, maxillofacial surgery and eye surgery, with unique anatomical insights into the neurosurgeon's perspective.

Color Atlas of Head and Neck Surgery

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

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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.

Atlas of Neurosurgical Techniques

Volume IVB describes surgical approaches, strategies, and management techniques for specific tumors in their typical locations, surgical outcomes and results, instruments, and laboratory training. It covers also the related disciplines neuroradiology and neuroanesthesia. The last installment in this well-known series.

Master Techniques in Otolarygologic Surgery: Skull Base Surgery

This book describes the anatomy of the posterior fossa, together with the main associated surgical techniques, which are detailed in numerous photographs and step-by-step color illustrations. The book presents approaches and surgical techniques such as the trans-cerebellomedullary fissure approach and its variation to the fourth ventricle, as well as the cerebellomedullary cistern, infratentorial lateral supracerebellar approach to the fifth cranial nerve in the upper cerebellopontine angle, infrafloccular approach to the root exit zone of the seventh cranial

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nerve, transcondylar fossa approach through the lateral part of the foramen magnum, and the stitched sling retraction technique utilized during microvascular decompression procedures for trigeminal neuralgia and hemifacial spasm. It also describes in detail the bridging veins of the posterior fossa, especially the petrosal vein, and bridging veins to the tentorial sinuses, which can block approaches to the affected area. Each chapter begins with an anatomical description of the posterior fossa, after which the respective surgical approaches are explained in an easy-to-follow manner. The original Japanese version of this work was published 8 years ago, and has established itself as a trusted guide, especially among young neurosurgeons who need to study various surgical approaches and techniques. In the course of being translated into English, some sections have been revised and new information has been added. The author hopes that the book will help neurosurgeons around the world perform safer operations with confidence.

Intraoperative Monitoring Techniques in Neurosurgery

A collection of core procedures for the spine surgeon... Neurosurgery Tricks of the Trade: Spine and Peripheral Nerves presents core surgical procedures in a concise, highly didactic format, enabling surgeons to quickly grasp their essence from the bulleted text and superb illustrations that accompany them. Expert neurosurgeons specializing in the spine and peripheral nerves describe how they

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perform common procedures and offer surgical tips and pearls. Key Features: Distills a wealth of information in a concise, step-by-step format, making it easy for neurosurgeons and other spine specialists to review how procedures are performed Includes more than 100 procedures focusing on the spine and peripheral nerves, each accompanied by high-quality, original illustrations Presents all procedures using a consistent outline and covers topics in either a pathology-based or an approach-based manner Surgeons at all levels, from residents learning procedures to experienced practitioners needing a quick refresher, will find this book and its companion volume, *Neurosurgery Tricks of the Trade: Cranial*, to be invaluable resources throughout their surgical careers. This book has been developed from Thieme eNeurosurgery, the world's most comprehensive neurosurgical resource online. For a free trial, go to: <http://thieme.com/eneurotrial>

Keyhole Approaches in Neurosurgery

Tips and pearls on the latest developments on endoscopic approaches to skull base and brain surgery from experts around the globe ideal for both otolaryngologisthead and neck surgeons and neurosurgeons, *Transnasal Endoscopic Skull Base and Brain Surgery: Tips and Pearls* gathers together in one comprehensive volume invaluable advice from world-renowned authorities on state-of-the-art endoscopic technologies and techniques. Each succinct chapter begins with a summary of key takeaway points and features an easily accessible outline format. After

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uniquely detailed coverage of macroscopic and endoscopic anatomy, the expert authors discuss the most up-to-date surgical approaches integrated with key information on technologic advances, such as 3D reconstruction and navigation. Clearly labeled illustrations demonstrate each step of the various procedures. The book closes with practical guidance on postoperative care and guidelines for avoiding and managing the potential complications encountered in these complex surgeries. Features In-depth information on endoscopic surgical procedures for the paranasal sinuses, anterior skull base, and the craniocervical junction Easy-to-reference bullet-points in each chapter distill the renowned authors vast experience Step-by-step surgical descriptions cover the full spectrum of skull base pathology Stunningly detailed illustrations, including more than 500 in full-color, enhance the text throughout This landmark work will improve the accuracy and precision of every surgeon and fellow in otolaryngologyhead and neck surgery and neurosurgery who deals with this delicate anatomic region.

Skull Base Surgery: Strategies

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

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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.

Samii's Essentials in Neurosurgery

THE DEFINING WORK IN NEUROSURGERY, REISSUED FOR A NEW GENERATION OF TECHNICAL EXCELLENCE Cranial Anatomy and Surgical Approaches is the master work of the legendary neurosurgeon Albert L. Rhoton, Jr. -- a distillation of 40 years of work to improve safety, accuracy, and gentleness in the medical specialty the author helped shape. Newly reissued and featuring more than 2000 full-color

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illustrations, this definitive text on the microsurgical anatomy of the brain remains an essential tool for the education and enrichment of neurosurgeons at any career stage. It fulfils its author's hopes to make, in his words, the "delicate, fateful, and awesome" procedures of neurosurgery more gentle, accurate, and safe. Across three sections, Cranial Anatomy and Surgical Approaches details the safest approaches to brain surgery, including:

- Micro-operative techniques and instrument selection
- Microsurgical anatomy and approaches to the supratentorial area and anterior cranial base, including chapters on aneurysms, the lateral and third ventricles, cavernous sinus and sella.
- Anatomy and approaches to the posterior cranial fossa and posterior cranial base, including chapters on the fourth ventricle, tentorial incisura, foramen magnum, temporal bone, and jugular foramen
- Supra- and infratentorial areas, including chapters on the cerebrum and cerebellum and their arteries and veins

Transnasal Endoscopic Skull Base and Brain Surgery

This surgical atlas, featuring a wealth of color photographs, provides detailed step-by-step descriptions of a wide range of open head and neck procedures, including radical and conservative (organ preservation, functional) approaches, aesthetic and reconstructive surgeries with the use of axial and free flaps, and surgery within the narrow confines of the skull base. Individual chapters are dedicated to surgery of the nose and paranasal sinuses, larynx and

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trachea, thyroid, salivary glands, mandible, face and lips, and neck, the repair of external nose defects, the use of axial and free flaps, and surgical treatment of temporal bone malignancy. The atlas will be a comprehensive practical reference for clinicians in the various specialties involved in head and neck surgery, including otolaryngologists, head and neck surgeons, plastic surgeons, maxillofacial surgeons and surgical oncologists. It will assist practitioners in achieving the high level of competence that is essential owing to the large number of vital structures in the head and neck region.

Endocrinology - E-Book

Atlas of Neurosurgical Techniques: Brain presents the current information on how to manage diseases and disorders of the brain. Ideal as a reference for review in preparation for surgery, this atlas features succinct discussion of pathology and etiology that helps the reader gain a firm understanding of the underlying disease and conditions. The authors provide step-by-step descriptions of surgical techniques, clearly delineating the indications and contraindications, the goals, the operative preparation and anesthesia, and postoperative management. Common complications of techniques are also emphasized. Over 900 illustrations aid the rapid comprehension of the surgical procedures described in the text. Highlights: Clear descriptions of the surgical management of aneurysms, arteriovenous malformations, occlusive and hemorrhagic vascular diseases, tumors, lesions, pain disorders, trauma, infections, and more Detailed

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discussion of disease pathology, etiology, and differential diagnosis Concise outlines of indications, contraindications, as well as advantages and disadvantages of each technique illuminate the rationale behind surgical management More than 900 illustrations, including 684 in full-color, demonstrate key concepts Sections on the latest techniques in stereotactic and minimally invasive surgery This companion volume to Atlas of Neurosurgical Techniques: Spine and Peripheral Nerves is an essential reference for all neurosurgeons and residents seeking the current information on state-of-the-art techniques in brain surgery.

Neurosurgery Tricks of the Trade

The first book to be published in this region, it describes the scientific basis of the procedures, as also their indications, scope and limitations. Alternative approaches available for various disease entities are included.

Endoscopic Approaches to the Paranasal Sinuses and Skull Base

To date, more than three thousand brain and skull base tumors, along with various vascular problems, have been treated by using advanced, fully endoscopic, minimally invasive surgical techniques. In this book, Dr. Hrayr K. Shahinian, director of the Skull Base Institute, compiles these techniques. The book is highly specific and amply illustrated. The step-by-step operating room procedures provide a definitive guide

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to the difficult yet essential art of skull base surgery.

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