

Principles Of Neurological Surgery Expert Consult Online And Print 3e Principles Of Neurosurgery

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.

No other neurological condition allows the same opportunities for an intracranial electrophysiological study of the human brain as epilepsy does. Epileptic surgery is designed to remove the epileptic focus from the human brain, thereby effecting either cure or substantial reduction of seizures in an individual with an otherwise intractable condition. Its use as a treatment modality dates from the late 19th century, and it has become a widely used treatment option throughout the world in the last 20-30 years. The complexity of epilepsy cases in surgical centres, and the need for invasive electrode studies for pre-surgical evaluation, are both greatly increasing. Invasive Studies of the Human Epileptic Brain is the definitive reference text on the use of invasive electroencephalographic (EEG) diagnostic studies in human epilepsy. Written by some of the most renowned epilepsy experts of the 20th and 21st centuries, the authors provide their expertise and insights into the identification and mapping of intracranial epileptiform and non-epileptiform activity, mapping of the human brain function, and approaches in the use of invasive electroencephalography in a variety of clinical situations. The book is organized into an easily readable series of chapters and is brilliantly illustrated with case studies; each providing an intuitively comprehensive approach to invasive brain studies.

The quintessential guide providing a one-stop roadmap to a neurosurgical career! Neurological surgery is a complex, highly selective specialty. For medical students and residents, navigating a huge array of neurosurgical information can be overwhelming. Neurosurgery Fundamentals by Nitin Agarwal is a portable reference enabling swift assimilation of neurosurgical care essentials. The book starts with a roadmap to a career in neurosurgery. It concludes with Advice from the Masters, featuring invaluable resources and insights from prominent neurosurgeons.

Comprehensive technical overviews are provided on the neurological exam, neuroanatomy, neuroradiology, neurocritical care, traumatic brain and spinal cord injury, degenerative and deformity spine, neurovascular surgery, neurosurgical oncology, pediatric neurosurgery, functional neurosurgery, stereotactic radiosurgery, neurological infectious diseases, and interdisciplinary care. Socioeconomic topics include training, licensure, credentialing, and advocacy. Key Features Fundamental diseases, tests, and operative approaches are summarized. Top Hits feature the most salient questions, aiding in retention of knowledge. High-yield resources are highlighted to augment reader identification.

Neurosurgical Pearls offer advice from the masters relevant to each chapter. High-quality illustrations, photographs, and radiographs enrich understanding. Aspiring neurosurgical providers will benefit from the easy-to-digest wealth of information in this concise, yet comprehensive

guide.

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 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.

Principles of Neurological Surgery

Care of the Adult Neurosurgical Patient

Invasive Studies of the Human Epileptic Brain

Clinical Sports Medicine

The Business, Policy, and Economics of Neurosurgery

Schmidek and Sweet: Operative Neurosurgical Techniques 2-Volume Set

Wherever, whenever, or however you need it, unmatched procedural guidance is at your fingertips with the new edition of Schmidek & Sweet: Operative Neurosurgical Techniques! Completely revised under the auspices of new editor-chief Dr. Alfredo Quiñones-Hinojosa, this comprehensive medical reference examines indications, operative techniques, complications, and results for nearly every neurosurgical procedure. Full-color illustrations, 21 new chapters, internationally-acclaimed contributors, surgical videos, and online access make it a "must have" for today's practitioner. Hone your skills for Master virtually every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Review clinical information on image-guided technologies and infections. Easily understand and apply techniques with guidance from more than 1,600 full-color illustrations. Rely on the knowledge and experience of new editor-in-chief Dr. Alfredo Quiñones-Hinojosa and leading international authorities, who offer multiple perspectives on neurosurgical challenges, from tried-and-true methods to the most current techniques. See exactly how to proceed with online surgical videos that guide you through each technique and procedure to

ensure the best possible outcomes and results. Apply the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; 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.

This book is an up-to-date reference on all aspects of anticoagulation and hemostasis in neurosurgery. After an opening section on basic principles and drug classes in current use, detailed consideration is given to coagulation issues relevant to all patients, not just neurosurgical ones. The coverage includes, for example, deep vein thrombosis, pulmonary embolism, and disseminated intravascular coagulation. A variety of important issues specific to neurosurgical practice are then addressed, and a summary of current guidelines and best practices is provided. By bringing together the latest knowledge from across the discipline, this book will serve as a sound basis for informed decision making in surgical practice. It will be of daily value for neurosurgeons and trainees worldwide and will also be of interest to emergency room physicians, surgeons in general, critical care physicians, neurologists, and hospital medicine specialists.

Principles and Practice of Restorative Neurology is a collection of topics in clinical neurology where progress through research has brought concepts of patient management. The collection emphasizes research done clinically and in experimental laboratories and attempts to discuss restorative neurology in the larger context, encompassing biology, neurobiology, and rehabilitative engineering. The book discusses the concept that neurology should be more therapeutic instead of being just diagnostic because of advances in techniques and drugs. An epidemiology of disability and the evaluation of re ...

Minimally Invasive Spine Surgery is a beautifully illustrated atlas describing the 18 most widely accepted minimally invasive procedures in spine surgery. Written by leaders in both neurologic and orthopedic spine surgery, this book offers the most up-to-date material and the broadest perspective on the subject. Procedures range from simple to complex and cover the cervical, thoracic and lumbar regions of the spine.

A Neurosurgeon's Notebook

Functional Neurosurgery

Ethics in Neurosurgical Practice

**Cerebrovascular Neurosurgery
Principles and Practice
Expert Consult - Online**

Written by an esteemed educator and founder of the renowned Chicago Review Course in Neurological Surgery™, this updated review reflects substantive content additions to the 8th edition. The two prior editions of the Rapid Review were must-have companions that fully leveraged the vast knowledge contained within Greenberg's legendary tome. Through repetition and spot-on questions, this book brings clarity to a specialty whose sheer depth and breadth presents comprehension and retention challenges. This book helps readers determine if they are retaining key data and information, thereby providing a robust self-assessment study tool for ABNS certification. The 7th companion generated glowing reviews, such as: "A wonderful example of how to turn the classic Greenberg text into a study guide rather than an encyclopedic reference to a young neurosurgeon" -AANS Young Neurosurgeons News Key Highlights Question formats include fill in the blank, open-ended questions, true/false, matching, and identification of various elements in diagrams/figures Mnemonic devices, helpful hints, clinical pearls, and study charts aid in comprehension and long-term retention Greenberg chapter headings are used (e.g. 4.2.3), thereby providing clear-cut Handbook references This book is designed to help neurosurgical residents prepare for the ABNS primary examination and/or rounds. It will enable practicing neurosurgeons, neurologists, neuroradiologists, and neuropathologists to develop a storehouse of knowledge required to efficaciously examine, analyze, diagnose, and treat neurosurgical patients.

The concept of this project is based on the premise that neurosurgeons are vital agents in the application of the American health care apparatus. They remain the true advocates for patients undergoing surgery for a neurological condition. Yet, the tenets of health care economics, health care policy, and the business of medicine remain largely debated within the context of politicians, policy experts, and administrators. This textbook will ease that gap. It will bring material generally absent from medical curricula into discussion. It will make potent features of health care economics, policy, and the business of practice digestible to clinical neurosurgeons in order to help them better treat their patients. The information provided in this text will also provide an excellent foundation for understanding the mechanics of running a neurosurgical practice. It simultaneously addresses career progression and opportunity evaluation.

Neurosurgery Rounds: Questions and Answers, Second Edition by Mark Shaya and an impressive cadre of coauthors and contributors, thoroughly prepares medical students and residents for common yet challenging questions frequently encountered during neurosurgery rounds. The convenient, easy-to-follow format provides diverse coverage of multiple disciplines intertwined in the understanding, care, and treatment of neurosurgical patients. Bringing the state of the art in neurosurgery up to date, nine revised and expanded chapters cover a full range of congenital, degenerative, traumatic, neoplastic, infectious, vascular, and inflammatory conditions impacting the brain, spine and peripheral nerves. Short

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answers and explanations appear directly below the questions, enabling quick reference during busy hospital shifts. Key Features More than 1,600 questions and answers test readers on a wide range of basic neuroscience, brain, spine, and peripheral nerve topics 30 featured cases provide invaluable clinical pearls and insightful discussions More than 175 high-quality radiographs and anatomical illustrations enhance the text This concise review is an essential lab coat companion for all medical students pursuing neurosurgical clerkships or sub-internships and junior residents on rounds.

Classically defined as the art of curing by the hand, hand intended as the organ of the possible, and positive certitude according to Paul Valery, surgery is shifting toward a scientific discipline with a very high technological valence. Neurosurgery in general, and skull base surgery in particular do not stave off this natural evolution. Obviously, technological advances have driven the tremendous progresses in both diagnosis (CT scan, MRI, angiography) and therapeutic fields (ultrasonic aspiration, radiosurgery). This technological aspect should not hide the humanistic remnant of the modern neurosurgeon, who should propose the less invasive technique in his possession to treat most efficiently his patient, keeping in mind the quality of life above all. The compromise between the invasiveness of the surgical approach to the skull base and the main goal of the surgery has shed light on the recent concept of minimally invasive skull base surgery. This concept has been conspicuously initiated by Axel Perneczky in the late 1980s under the descriptive keyhole neurosurgery, especially through the renowned eyebrow supra-orbital mini-craniotomy and the implementation of endoscope-assisted microneurosurgery. A decade after, Jho and others introduced the endoscopic endonasal approaches to the skull base, with a perpetual development and an exponential rhythm of scientific publications. This recent paradigm shift toward a minimal approach-related iatrogeny coupled with a maximally efficient surgical target is not so clear cut, as pioneering neurosurgeons such as Cushing, Dandy or Dott among others already adopted this philosophy of work, limited by the technology available at that time that did not permit their minimally invasive expectations. This has been possible only with the progresses made in the fields of imaging, surgical instrumentation, illumination technologies (microscope and endoscope), radiosurgery, and neuroanesthesia.

Principles and Practice of Keyhole Brain Surgery

A Practical Guide to Anatomy and Techniques

Neurosurgery Self-Assessment E-Book

Clinical Practice of Neurological and Neurosurgical Nursing

A Companion to the 8th Edition

Principles of Neurological Surgery E-Book

Principles of Neurological Surgery Elsevier Health Sciences

Provides a broad overview of neurosurgery to house officers in the clinical neurosciences. Covers all core areas within neurosurgery and

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includes numerous colour illustrations.

Accompanying CD-ROM contains ... "convenient electronic access to the text's illustrations, downloadable for use in presentations, as well as diagnosis-specific office handouts that can be given to patients who want to know more about their conditions."--P. [4] of cover.

Stellar, pocket-sized nursing guide facilitates implementation of best practices in the care of neurosurgical patients Written by advanced practice nurses in collaboration with physician experts from one of the world's most renowned neurosurgical institutions, this is the first point-of-care book designed to enhance patient care at the bedside. Every chapter is written by leading authorities in their respective specialties, resulting in a concise but robust neuroscience nursing management tool. The authors lay a foundation with an in-depth description of central nervous system anatomy, followed by step-by-step processes required to perform accurate and thorough neurological assessments. Subsequent chapters describe common neurological disorders and conditions such as tumors, vascular anomalies, and traumatic brain injury. The authors deftly guide the reader through managing neurological diagnoses and help the reader understand the treatment that patients with these conditions may undergo. Key Highlights Superb illustrations and 10 animations created by master artists bring to life the anatomical structures, pathologies, and mechanisms of injury described in the chapters Lists, tables, and boxes are organized in a concise layout that allows quick consultation and implementation Diagnostic images, medical illustrations, and treatment algorithms help elucidate the implications of managing patients with complex neurological conditions Appendices contain extensive complementary information including discharge instructions and checklists that are of great help to family caregivers and healthcare professionals alike This book is an accessible, easy-to-navigate reference for nurses and ancillary staff of varied experience levels and specialties who are caring for neurosurgical patients. It is a must-have resource for nurse practitioners and physician assistants at any institution with a high-volume neurosurgical service.

Transsphenoidal Surgery

Medical Management and Rehabilitation

Neurosurgery Rounds: Questions and Answers

Minimally Invasive Skull Base Surgery

Neurosurgery

Complication Avoidance and Management Techniques

This thoroughly revised new edition of a classic book provides a clinically inspired but scientifically guided approach to the biological foundations of human mental function in health and disease. It includes authoritative coverage of all the major areas related to behavioral neurology, neuropsychology, and neuropsychiatry. Each chapter, written by a world-renowned expert in the relevant area, provides an introductory background as well as an up-to-date review of the most recent developments. Clinical relevance is emphasized but is placed in the context of cognitive neuroscience, basic neuroscience, and functional imaging. Major cognitive domains such as frontal lobe function, attention and neglect, memory, language, prosody, complex visual processing, and object identification are reviewed in detail. A comprehensive chapter on behavioral neuroanatomy provides a background for brain-behavior interactions in the cerebral cortex, limbic system, basal ganglia, thalamus, and

cerebellum. Chapters on temperolimbic epilepsy, major psychiatric syndromes, and dementia provide in-depth analyses of these neurobehavioral entities and their neurobiological coordinates. Changes for this second edition include the reflection throughout the book of the new and flourishing alliance of behavioral neurology, neuropsychology, and neuropsychiatry with cognitive science; major revision of all chapters; new authorship of those on language and memory; and the inclusion of entirely new chapters on psychiatric syndromes and the dementias. Both as a textbook and a reference work, the second edition of Principles of Behavioral and Cognitive Neurology represents an invaluable resource for behavioral neurologists, neuropsychologists, neuropsychiatrists, cognitive and basic neuroscientists, geriatricians, physiatrists, and their students and trainees.

The highly anticipated second edition is now completely revised & expanded to provide thorough, encyclopedic coverage of pathophysiology, diagnosis, & surgical management of all disorders as it remains gold-standard in the specialty. 450 chapters encompass the entire field of neurosurgery, & since each chapter focuses on specific topic in a concise format, the reader can review a subject quickly yet thoroughly.

Schmidek and Sweet has been an indispensable reference for neurosurgery training and practice for nearly 50 years, and the 7th Edition of Operative Neurosurgical Techniques continues this tradition of excellence. A new editorial board led by editor-in-chief Dr. Alfredo Quinones-Hinojosa, along with more than 330 internationally acclaimed contributors, ensures that readers stay fully up to date with rapid changes in the field. New chapters, surgical videos, and quick-reference features throughout make this edition a must-have resource for expert procedural guidance for today's practitioners. Discusses indications, operative techniques, complications, and results for nearly every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Covers the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arteriovenous malformations. Includes new chapters on bypass techniques in vascular disease, previously coiled aneurysms, CSF diversion procedures, surgical management of posterior fossa cystic and membranous obstruction, laser-ablation techniques, and brain stem tumors. Explores hot topics such as wide-awake surgery and ventriculo-peritoneal, ventriculoatrial and ventriculo-pleural shunts. Provides detailed visual guidance with more than 1,600 full-color illustrations and 50 procedural videos. Contains quick-reference boxes with surgical pearls and complications. 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.

Part of the Neurosurgery by Example series, this volume on cerebrovascular neurosurgery presents exemplary cases in which renowned authors guide readers through the assessment and planning, decision making, surgical procedure, after care, and complication management of common and uncommon disorders. The cases explore the spectrum of clinical diversity and complexity within cerebrovascular neurosurgery, including aneurysms, ischemic/occlusive disease, arteriovenous malformation, dural arteriovenous fistula, and more. Each chapter also contains 'pivot points' that illuminate changes required to manage patients in alternate or atypical situations, and pearls for accurate diagnosis, successful treatment, and effective complication management. Containing a focused review of medical evidence and expected outcomes, Cerebrovascular Neurosurgery is appropriate for neurosurgeons who wish to learn more about a subspecialty, and those preparing for the American Board of Neurological Surgery oral examination.

Atlas of Neurosurgical Techniques

Cerebral Revascularization - E-Book

Neurosurgery Fundamentals

Handbook of Neuroscience Nursing

Techniques in Extracranial-to-Intracranial Bypass Surgery: Expert Consult

Telerehabilitation, E-Book

Offering significant benefits to both healthcare providers and patients, telerehabilitation is a key component in the future of rehabilitation care. *Telerehabilitation: Principles and Practice* provides expert information from experienced practitioners in the field, covering the wide range of patients seen in a rehabilitation medical practice or a hospital-based system. It provides quick access to information on common rehabilitation diagnoses and practices and how you can best use telerehabilitation to provide timely, effective care to every patient. Clearly explains the benefits and utility of telerehabilitation for improving access to care and outcomes for various patient populations. Uses a reader-friendly format based on diagnosis of specific disorders and common problems. Covers telerehabilitation for spinal cord injury, stroke, and cancer rehabilitation, amongst other diagnoses. Discusses key topics in telerehabilitation such as musculoskeletal concerns, integrative health, physical and occupational therapy. Features discussions of the use of telerehabilitation for care of psychologic, bladder, bowel, and sexual concerns. Ideal for telemedicine professionals, physiatrists in practice or residency

administrators, as well as physical and occupational therapists.

The definitive guide to thoracic spine pathologies and state-of-the-art surgical approaches *Surgery of the Thoracic Spine: Principles and Techniques* by renowned spine surgeons Ali Baaj, Kumar Kakarla, and Han Jo Kim fills a gap in the literature, with content focused solely on pathologies and surgical techniques of the thoracic spine and vertebral column. Starting with a thoughtful discussion on the uniqueness of the thoracic region as it relates to pulmonary function, the richly illustrated textbook covers a full spectrum of topics from biomechanics and anesthetic considerations to neuromonitoring and neuronavigation. With contributions from a cadre of distinguished experts, the book encompasses pathophysiology, surgical techniques, and reconstructive strategies for common degenerative, congenital, oncologic, and traumatic diseases of the thoracic spine. Dedicated chapters cover treatment options for different types of scoliosis, Scheuermann kyphosis, proximal junctional deformity, and posttraumatic deformity. Key Features Treatment of common degenerative conditions including stenosis and disc herniations Management of less common inflammatory and infectious spinal diseases such as spondylarthropathies, osteomyelitis, discitis, and fungal and tubercular infections Oncologic topics including primary, intradural extramedullary, and intramedullary spinal cord tumors and thoracic spine metastases Surgical treatment of pediatric and adult deformities including congenital, idiopathic, and degenerative scoliosis Classification of thoracic spinal fractures, discussion of complete and incomplete thoracic spinal cord injuries, posterior and ventral treatment of thoracic spine fractures, and osteoporotic compression fractures This is an invaluable evaluation and management tool for neurosurgical and orthopaedic residents and practicing spine surgeons who treat patients with common to complex thoracic spinal pathologies. Neurosurgery is a rapidly developing and technically demanding branch of surgery that requires a detailed knowledge of the basic neuro-sciences and a thorough clinical approach. The Oxford Textbook of Neurological Surgery is an up-to-date, objective and readable text that covers the full scope of neurosurgical practice. It is part of the Oxford Textbooks in Surgery series, edited by Professor Sir Peter Morris. The book is split into 20 overarching sections (Principles of Neurosurgery; Neuro-oncology of Intrinsic Tumours; Extra-axial Tumours and Skull Lesions; Cerebro-Pontine Angle Tumours; Sellar and Supra-Sellar Tumours; Posterior Fossa Tumours; Pineal tumours; Uncommon Tumours and Tumour Syndromes; Neurotrauma and Intensive Care; Vascular Neurosurgery; Principles of Spinal Surgery; Spinal Pathology; Spinal Trauma; Peripheral Nerve

Surgery; Functional Neurosurgery; Epilepsy; Paediatric Neurosurgery; Neurosurgery for Cerebrospinal Fluid Disorders and Neurosurgical Infection). Each section takes a dual approach with, 'Generic Surgical Management' chapters that focus on specific clinical problems facing the neurosurgeon (e.g. sellar/supra-sellar tumour, Intradural Spina Tumours etc.) and 'Pathology-Specific' chapters (e.g. Glioma, Meningeal Tumours, Scoliosis and Spinal Deformity, Aneurysm etc.). Where appropriate, this division provides the reader with easily accessible information for both clinical problems which present in a regional fashion and specific pathologies. The generic chapters cover aspects such as operative approaches, neuroanatomy and nuances. Specifically each chapter in the book incorporates several strands. Firstly the fundamental neuroscience (anatomy, pathology, genetics etc.) that underlies the clinical practice. Secondly, a review of the requisite clinical investigations (e.g. angiography, electrodiagnostics, radiology). Thirdly, a thorough evidence based review of clinical practice. Following this a consideration of the key debates and controversies in the field with 'pro-' and 'con-' sections (e.g. minimally invasive spine surgery, microsurgical treatment of aneurysms) is provided. A summary of the key papers and clinical scales relevant to neurosurgery form the concluding part. The book is a 'one-stop' text for trainees and consultants in neurosurgery, residents, those preparing for sub-specialty exams and other professionals allied to surgery who need to gain an understanding of the field. It acts as both a point of reference to provide a focussed refresher for the experienced neurosurgeon as well as a trusted training resource.

"Series Editor's Preface Dear Reader, I am delighted to introduce this volume of Neurosurgery by Example: Key Cases and Fundamental Principles. Neurosurgical training and practice are based on managing a wide range of complex clinical cases with expert knowledge, sound judgment, and skilled technical execution. Our goal in this series is to present exemplary cases in the manner they are actually encountered in the neurosurgical clinic, hospital emergency department, and operating room. In this volume, Drs. Ahmed Raslan and Ashwin Viswanathan invited a broad range of expert contributors to share their extensive wisdom and experience in all major areas of functional neurosurgery. Each chapter contains a classic presentation of an important clinical entity, guiding readers through the assessment and planning, decision making, surgical procedure, after care, and complication management. 'Pivot points' illuminate the changes required to manage patients in alternate or atypical situations. Each chapter also presents lists of pearls for the accurate diagnosis, successful treatment, and effective complication

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management of each clinical problem. These three focus areas will be especially helpful to neurosurgeons preparing to sit for the American Board of Neurological Surgery oral examination, which bases scoring on these three topics. Finally, each chapter contains focused reviews of medical evidence and expected outcomes, helpful for counseling patients and setting accurate expectations. Rather than exhaustive reference lists, chapter authors provide focused lists of high priority additional reading recommended to deepen understanding. The resulting volume should provide you with a dynamic tour through the practice of functional neurosurgery, guided by some of the leading experts in North America. Additional volumes cover each subspecialty area of neurosurgery, using the same case-based approach and board review features. Nathan R. Selden, MD, PhD Campagna Professor and Chair Department of Neurological Surgery Oregon Health & Science University"--

Oxford Textbook of Neurological Surgery

Indications, Methods and Results (Expert Consult - Online and Print)

Principles of Neurosurgery

Brain

Surgery of the Thoracic Spine

Tumor Neurosurgery

This unique book describes an expert neurosurgeon's way of avoiding trouble in the clinic and the operating theatre. Mr Adams, an internationally recognized neurosurgeon and teacher, has trained numerous neurosurgical fellows from around the world including the US, Japan, Australia, Europe and South Africa. The book contains his pearls of wisdom after a lifetime of neurosurgical practice. It is a distillation from his own notebook, which contains 30 years' worth of clinical cases (and both his successes and failures). The book is not intended as a comprehensive textbook of neurosurgery but covers those areas that cause difficulty for trainees and qualified surgeons alike. There are unique chapters on: * neuroanatomy (with two sheets of origami to aid learning) * handy hints on history taking and neurological examination * fundamental surgical principles * talking with patients * unusual pathologies to watch out for and * operative technical tips This book emphasizes the art and philosophy of neurosurgery and surgery in general. The chapter on history taking and examination is a wonderful read, and this chapter alone should persuade all surgical trainees (not just neurosurgeons) to buy this book. In addition, the section on the management of post-operative pain is lucid and full of essential knowledge. Finally, surgeons who operate close to the brain (ENT and maxillofacial surgeons) as well as neurosurgeons will find the fount of wisdom in this book invaluable for the management of their own patients. A comprehensive introduction and practical framework to bioethics, for all who are involved in the management of neurosurgical patients.

This open access book presents the diagnosis, investigation and treatment of neurovascular diseases, and offers expert opinions and advice on avoiding complications in neurovascular surgery. It also covers complication management and post-operative follow-up care. The book is divided into three parts; the first part discusses common approaches in neurovascular surgery, describing the steps, indications for and limitations of the approach, as well as the associated complications and how to avoid them. The second part addresses surgical treatment based on pathology, taking the different locations of lesions

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into consideration. The third part focuses on the technological developments that support neurovascular surgery, which may not be available everywhere, but have been included to help vascular surgeon understand the principles. This book is a guide for young neurosurgeons, neurosurgery residents and neurosurgery fellows, as well as for medical students and nurses who are interested in neurosurgery or are associated with this field in any way. It is also a useful teaching aid for senior neurosurgeons.

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 over 1,000 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 MediaCenter, narrated by the authors and aligned to the 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.

Principles and Practice of Restorative Neurology

Kidney Transplantation

Surgical Approaches for Neurovascular Diseases

Neurovascular Surgery

Principles and Techniques

Tumor Neurosurgery provides information on the basic knowledge and clinical management required for optimal care of neurooncology patients. Providing an up-to-date synopsis of the field of tumor neurosurgery, the book covers the most common sites and tumor pathologies encountered by neurosurgeons. The chapters are organized under broad topics, including investigative studies, perioperative care and the role of newer techniques. The clinical management of CNS tumors in adults and children is described, including spinal tumors, both intradural and extradural. This book provides coverage of relevant topics in the field of tumor neurosurgery, for residents and registrars in training, and for recent graduates of training programs.

This text provides a high level, comprehensive but concise review of adult surgical critical

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care. It can be used to review complex topics of critical illness in surgical patients, as a reference tool, or as preparation for a board examination. It is focused on the surgical patient including high yield facts, evidence-based guidelines, and critical care principles. To remain succinct, it concentrates on surgically relevant care. Further, the text is written with an expectation that reader already possesses a basic understanding of critical care pathophysiology and clinical practices such as those acquired during residency. Organized by organ system, each section contains several chapters addressing relevant disorders, monitoring and treatment modalities, and outcomes. Principles of Adult Surgical Critical Care will be of use to intensivists caring for surgical patients regardless of parent training domain. Additionally, this work is intended to be used by surgical critical care fellowship trainees as well as other advanced practice providers such as nurse practitioners and physician assistants who provide care in ICUs and emergency departments alike.

Cerebral Revascularization: Techniques in Extracranial-to-Intracranial Bypass Surgery, by Saleem I. Abdulrauf, MD, FACS, offers unmatched expert guidance. Through a series of dynamic, step-by-step instructional videos of the most common and uncommon procedures, you will deepen your understanding of these techniques and be able to confidently perform them. Edited and written by international leaders in neurosurgery, this definitive reference - with a foreword written by M. Gazi Yasargil, MD creator of the procedure - is the first and only text entirely dedicated to this surgery and provides you with exclusive, authoritative information. Access the full text, video library, and reference links to PubMed at www.expertconsult.com. Sharpen your skills in Extracranial-to-Intracranial (EC-IC) Bypass Surgery with help from the first and only text entirely dedicated to this quickly evolving procedure. Get exclusive, first-hand expert knowledge from a an internationally renowned team of editors and contributors, all leaders in cerebrovascular care. See key EC-IC bypass procedures performed in detailed, step-by-step instructional video clips. Access the full text online including the complete video library, reference lists, and additional online-only information at www.expertconsult.com.

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

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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.

Schmidek and Sweet: Operative Neurosurgical Techniques E-Book

Indications, Methods and Results

Questions and Answers

The Greenberg Rapid Review

Principles of Behavioral and Cognitive Neurology

Minimally Invasive Spine Surgery

Principles of Neurosurgery, by Drs. Richard G. Ellenbogen, Saleem I. Abdulrauf and Laligam N Sekhar, provides a broad overview of neurosurgery ideal for anyone considering or training in this specialty. From general principles to specific techniques, it equips you with the perspectives and skills you need to succeed. Comprehensive without being encyclopedic, this new edition familiarizes you with the latest advances in the field—neuroimaging, the medical and surgical treatment of epilepsy, minimally invasive techniques, and new techniques in position and incisions—and shows you how to perform key procedures via an online library of surgical videos at www.expertconsult.com. No other source does such an effective job of preparing you for this challenging field! Get comprehensive coverage 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. Gain a clear visual understanding from over 1,200 outstanding illustrations—half in full color—including many superb clinical and operative photographs, surgical line drawings, and at-a-glance tables. Apply best practices in neuroimaging techniques, minimally invasive surgery, epilepsy surgery, and pediatric neurosurgery. Master key procedures by watching experts perform them in a video library online at www.expertconsult.com, where you can also access the fully searchable text, an image gallery, and links to PubMed. Keep up with recent advances in neurosurgery with fully revised content covering neuroimaging, the medical and surgical treatment of epilepsy, minimally invasive techniques, new techniques in position and incisions, deep brain stimulation, cerebral revascularization, and treatment strategies for traumatic brain injury in soldiers. Apply the latest guidance from new chapters on Cerebral Revascularization, Principles of Modern Neuroimaging, Principles of Operative Positioning, Pediatric Stroke and Moya-Moya, Anomalies of Craniovertebral Junction, and Degenerative Spine Disease. Tap into truly global perspectives with an international team of contributors led by Drs. Richard G. Ellenbogen and Saleem I. Abdulrauf. Find information quickly and easily thanks to a full-color layout and numerous detailed illustrations.

This book provides coverage of a broad range of topics in the field of neurosurgery, 5 for residents and registrars in training and for recent graduates of training programs. 6 As neurosurgical training incorporates expertise from centers worldwide, there is a 7 need to have input from specialists in neurosurgery from various countries. This text 8 is a compilation by expert authors in the USA and the UK to

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provide information on the basic knowledge and clinical management required for optimal care of neuro-2011 surgical patients. The text is an up-to-date synopsis of the field of neurosurgery from American and British perspectives, which covers the most common clinical conditions encountered by neurosurgeons. The chapters are organized under broad topics, including investigative studies, perioperative care, the role of newer techniques and the management of tumors, vascular and traumatic lesions. Additional topics are then covered, including pediatrics, spine and peripheral nerve lesions, as well as functional neurosurgery and infections. We anticipate that trainees will find this information useful for certification examinations and recent graduates of neurosurgical training programs can utilize this text as an update of the most important neurosurgical topics.

Ideal for both neurosurgical residents and recertifying neurosurgeons, *Neurosurgery Self-Assessment: Questions and Answers* offers the most comprehensive, up to date coverage available. Over 1,000 clinically relevant multiple-choice questions across 46 topic areas test the candidate's knowledge of basic neuroscience and neurosurgical subspecialties to an unparalleled degree and provide detailed answer explanations to facilitate learning and assessment. Over 700 histology, pathology, radiology, clinical and anatomical images serve as an index of routinely tested-on images in neurosurgical examinations with high-yield summaries of each pathology to reinforce and simplify key concepts. Includes only multiple choice questions in both single-best-answer and extended matching item (10-20 options) format increasingly adopted by neurosurgery certification boards worldwide. Questions are organized by topic and classified by degree of difficulty through a highly visual "traffic light system" which codes each question in green, amber, or red. Includes coverage of the landmark studies in areas such as vascular, stroke, spine and neurooncology. Practical tips facilitate study with test-taking strategies and things to consider before sitting for an exam. Utilizes Imperial and SI units throughout.

The new Sixth Edition of this award-winning classic prepares its users for delivering expert care in this most challenging nursing specialty. It addresses neuroanatomy, assessment, diagnostic evaluation, and management of the complete range of neurological disorders for which nurses provide patient care, including trauma, stroke, tumors, seizures, headache, aneurysms, infections, degenerative disorders, and peripheral neuropathies. This edition has been thoroughly revised to reflect standards of care based on evidence-based practice. It now includes case studies, community nursing sections throughout, and increased coverage of normal pressure hydrocephalus, inflammatory demyelinating polyneuropathy, and Creutzfeldt-Jacob disease.

Principles of Adult Surgical Critical Care

Essential Neurosurgery

Anticoagulation and Hemostasis in Neurosurgery

Textbook of Neurological Surgery

Essential Neurosurgery provides a comprehensive introduction to neurosurgery for junior surgical trainees and medical students. The book concentrates on the principles of neurosurgical diagnosis and management of the more common central nervous system problems, including an understanding of neurology and the pathological basis of neurological disease. There is also coverage of neurosurgical techniques and postoperative patient management. This new edition brings the text fully up to date and includes many of the biological and technological advances

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made in the field of neurosurgery that have improved surgical possibilities and patient outcomes. Review quotations from the previous edition 'flowing and well highlighted text keeps the reader interested in the subject' British Journal of Neurosurgery 'an excellent text...well organised and clearly set out' Journal of Neurology, Neurosurgery and Psychiatry
Rev. ed. of: *Principles of neurosurgery* / edited by Setti S. Rengachary, Richard G. Ellenbogen.
2nd ed. 2005.