Today he is known as Dr. Q, an internationally renowned neurosurgeon and neuroscientist who leads cutting-edge research to cure brain cancer. But not too long ago, he was Freddy, a nineteen-year-old undocumented migrant worker toiling in the tomato fields of central California. In this gripping memoir, Alfredo Quiñones-Hinojosa tells his amazing life story—from his impoverished childhood in the tiny village of Palaco, Mexico, to his harrowing border crossing and his transformation from illegal immigrant to American citizen and gifted student at the University of California at Los Angeles. "Dr. Q," or "the Surgeon," as his patients call him, is a role model and inspiration to millions. His story is proof that education and diligence can overcome obstacles from the edges of society and lead to a life change as extraordinary as his own.

Today, as a globally recognized leader in neurosurgery, Dr. Q delivers hundreds of lectures on technology specific for that particular clinical area. Each section contains a chapter providing an overview from experienced Section Lecturers. These lectures clarify key concepts in techniques, key approaches to treatment, and surgical management and evaluation. Notable lecture videos include multiple videos on Considerations for Patients with Polytrauma, Endovascular Approaches to Intracranial Aneurysms, and much more. Hundreds of all-new video lectures cover the latest developments in the field, including the impact of technology on neurosurgery, the role of machine learning and artificial intelligence, and the future of neurosurgery.

This book reviews the significant advances in our understanding of glioma biology that have been achieved during the past decade and describes in detail the resultant new approaches to treatment. Improvements in surgical techniques, radiation therapy, and chemotherapy are comprehensively covered, with discussion of their impact in decreasing patient morbidity and increasing survival. In addition, individual chapters are devoted specifically to current treatment for low-grade gliomas, anaplastic gliomas, and glioblastoma multiforme. Other topics addressed include treatment of metastatic disease, radiotherapy for recurrent gliomas, and strategies for improving outcome measures. This valuable source of up-to-date information for practitioners and will also be of interest to researchers.

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 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 fulfills 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 anatomy of the brainstem, infratentorial anatomy, and cerebellopontine angle. Microsurgical 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

This edition, part of the second edition of the classic Neurosurgical Operative Atlas series, presents the latest techniques for managing the full range of spinal and peripheral nerve problems. Each chapter addresses a different surgical procedure, guiding the reader through patient selection, surgical approach, and postoperative care. The Operative Neurosurgical Techniques series is an essential resource for anyone involved in the field of neurosurgery, including neurosurgeons, residents, and medical students.
Comprehensive Overview of Modern Surgical Approaches to Intrinsic Brain Tumors addresses limitations in the scientific literature by focusing primarily on surgical approaches to various intrinsic neoplasms using diagrams and step-by-step instructions. It provides the advantages and disadvantages of these approaches, controversies, and technical considerations and discusses topics such as anatomy, pathology and animal models, imaging, open brain tumor approaches and minimally invasive approaches. Additionally, it discusses controversial treatments and the pros and cons of each. This book is a valuable source for medical students, neurosurgeons and any healthcare provider who has an interest in brain tumors and techniques to treat them. It provides a comprehensive review of different approaches, explaining them step-by-step. Includes diagrams that show surgical approaches. Present the advantages and disadvantages of each approach to aid in decision-making.

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 of brain injuries; invasive electrophysiology performed in the operating room; and the latest in the surgical management of cerebral aneurysms and arterio-venous 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, ventriculocisternal 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.

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-in-chief Dr. Alfredo Quinones-Hinojosa, this comprehensive medical reference book indicates, explains, and correlates neurosurgical techniques, complications, and results for nearly every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Features more than 1,600 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 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. Relating the knowledge of new editor-in-chief Dr. Alfredo Quinones-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. With 337 expert contributors, Get procedural guidance on the latest neurosurgical operative techniques from Schmidek & Sweet on your desktop and mobile device.

The book is compact and well presented and can certainly be recommended for the departmental library. Comprehensive, visually appealing, and easy to understand, Osborn's Brain, second edition, by the highly esteemed Dr. Anne G. Osborn, provides a solid framework for understanding the complex subject of brain imaging when studied cover to cover. Almost completely rewritten and featuring 75% new illustrations, it combines essential anatomy with gross pathology and imaging, clearly demonstrating why and how diseases appear the way they do. In the management of patients with neurological disorders, the diagnostician must be aware of the entire range of differential diagnoses. The new edition emphasizes the "must-know" aspects of brain imaging together with spectacular pathology examples, relevant anatomy, and up-to-date techniques in neuroradiology—perfect for radiologists, neuroradiologists, neurosurgeons, and neurologists at all levels. Begins with emergent topics such as trauma, nontraumatic hemorrhage, stroke, and vascular lesions, followed by infections, demyelinating and inflammatory diseases, neoplasms, toxic-metabolic degenerative disorders, and congenital brain malformations. Features more than 4,000 stunning, high-resolution radiologic images and medical illustrations, all of which are annotated to describe the most clinically significant features. Includes Dr. Osborn's trademark summary boxes scattered throughout for quick review of essential facts, as well as the most recent and up-to-date references available. Helps readers think clearly about diagnoses, types of diagnoses, and all the various pathological processes that can affect the brain. Includes new WHO classifications of brain tumors, new entities including gli34-related disease and CLIPPERs, new and emerging infectious diseases, and updated insights into brain trauma and brain degeneration.

Because of tremendous advancements in research, scientific and surgical neurosurgery has become increasingly complex, and is imperative that physicians have scientific evidence to guide and defend their decision making as they strive to provide the best patient care. Controversies in Neuro-Oncology: Behavioral Approaches for Brain Tumor Research and Practice, written by world-renowned experts, is a comprehensive guide to what compiles, synthesizes, and summarizes the most relevant scientific literature available in neurosurgical oncology. It provides objective recommendations based on the data found in the literature, gives physicians the information they need to make fully informed treatment decisions. Key Features: An opening chapter, Introduction to Best Evidence Medicine, illustrates how the authors rate the viability of the data presented. Authors discuss in detail commonly disputed topics specific to tumor type, such as the roles of surgery and total resection as well as radiosurgery options Expert recommendation boxes help the reader summarize the data in a concise format and distill abundant scientific evidence and emphasize the main conclusions of published studies. This book will be the go-to guide for all neurosurgeons, oncologists, and neurologists involved in the multidisciplinary care of patients with brain tumors.
Evidence-based medicine is a concept that has come to the fore in the past few years. Clinicians are increasingly encouraged to practise patient management based on available evidence in the scientific literature. For example, new pharmaceutical therapies are only used when large randomized trials have ‘proven’ that a particular drug is better than existing ones. This is also the case in surgical specialties, although surgery has traditionally seen a lack of use of this information, with individual surgeon’s preferences being most influential in treatment choices. However, more recently, there has been a large expansion of trials and studies aimed at providing surgeons with information to guide their choices using firm evidence. This book provides a detailed summary of the most important trials and studies in neurosurgery, allowing the reader to rapidly extract key results. Each chapter is written by a prominent international neurosurgeon in that particular field, making this book essential reading for all neurosurgeons and trainees in the field.

Currently, surgical management provides the definitive treatment of choice for most pituitary adenomas, cranioopharyngiomas and meningiomas of the sellar region. The elegant minimally invasive transnasal endoscopic approach to the sella turcica and the anterior skull base has added a new dimension of versatility to pituitary surgery and can be adapted to many lesions in the region. In this multi-author book with numerous color illustrations the main aspects of the endonasal endoscopic approach to the skull base are presented, starting with a clear description of the endoscopic anatomy, the panoramic view afforded by the endoscope and the development of effective instruments and adjuncts. After the diagnostic studies, the strictly surgical techniques are considered in detail. The standard technique is described and particular aspects are treated, including the new extended approaches to the cavernous sinus, sphenoparietal planum and clival regions.

Certification from the American Board of Neurological Surgeons (ABNS) is the gold standard for certification of neurosurgeons practicing in the U.S. This text is the most up-to-date board review guide for neurosurgeons. It features actual cases, over 300 high-quality illustrations and images, clinical overviews, and a Q and A that mimics the ABNS exam format. Uniquely qualified as esteemed experts in organized neurosurgery as well as past or present Directors of the ABNS, the editors have compiled a book of remarkable depth and scope. With contributions from top neurosurgeons in each subspecialty, this text will prepare neurosurgeons for the rigorous ABNS exams. This indispensable book will help neurosurgeons and neurosurgical residents prepare thoroughly for written and oral board examinations, and benefit board-certified neurosurgeons who need to fulfill MOC requirements. Thieme eNeurosurgery is the world’s most comprehensive neurosurgical resource online. For a free trial, go to: http://thieme.com/eneternal

This text examines indications, operative techniques, complications, and results for nearly every neurosurgical procedure.

Written and edited by world-renowned experts in the field, Benzel's Spine Surgery: Techniques, Complication Avoidance and Management, 5th Edition, provides expert, step-by-step guidance on the evaluation and management of disorders of the spine. This definitive, two-volume work explores the full spectrum of techniques necessary in spine surgery, giving you the tools you need to hone your skills and increase your knowledge in this challenging area. Clearly organized and extensively revised throughout, it features contributions from both neurosurgeons and orthopaedic surgeons to present a truly comprehensive approach to spine disease. Offers a thorough overview of the effective management of patients with spinal disorders, including fundamental principles, biomechanics, applied anatomy, instrumentation, pathophysiology of spinal disorders, surgical techniques, motion preservation strategies, non-surgical management, and complication avoidance and management, as well as controversies. Focuses on both pathophysiology and surgical treatment of spine disease, with an increased emphasis on minimally invasive surgery. Contains new features such as key points boxes at the beginning of chapters and algorithms to help streamline the decision making process. Covers today’s hot topics in spine surgery, such as health economics, artificial intelligence, predictive analytics, new less invasive techniques including endoscopic spine surgery, and the future of spine surgery. Provides expert coverage of key topics including biomechanics of motion preservation techniques, spinal injuries in sports, board-certified spine surgery: anterior cervical plate fixation and fusion techniques, complex lumbosacral fixation and fusion techniques, and many more. Features more than 1,500 high-quality illustrations, as well as new procedural videos on en bloc spondylectomy, minimally invasive endoscopic posterior cervical foraminotomy, cervical total disc replacement, minimally invasive lumbar decompression of stenosis, and more. Enhanced eBook version included with purchase. Your enhanced eBook allows you to see all of the text, figures, and references from the book on a variety of devices.

*The Congress of Neurological Surgeons (CNS) Essential Papers in Neurosurgery brings to the neurosurgical community a unique collection of
A practical guide translating clinical trials findings, across major psychiatric disorders, to devise tailored, evidence-based treatments.

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 Neurosurgical Surgery is the grand dame of the major neurosurgical textbooks...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 basic science, patient evaluation and surgical techniques and complications. New topics include A/V fistulas and revision techniques. This revised edition--from the editors of an experienced veteran of the field and an emerging talent--has extensively revised this new edition. Wrin provides detailed underlying scientific basis for this edition. 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 nationally renowned editors and contributors, led by H. Richard Wynn, provides new perspectives and fresh perspectives. Also available as a multimedia edition! See Companion Products for more information.

Get step-by-step, expert guidance on fundamental procedures in neurosurgery. Core Techniques in Operative Neurosurgery, 2nd Edition, provides the tools needed to hone existing surgical skills and learn new techniques, helping you minimize risk and achieve optimal outcomes for every procedure. Led by Dr. Rahul Jandial, this concise reference offers quick access to the expertise and experience of the world's leading authorities in the field of neurosurgery. Presents consistent, easy-to-follow chapters that cover the indications and contraindications, pitfalls, tips and tricks from the experts, and more for each procedure. Covers minimally invasive spine techniques such as Thoracic Corpectomy and Minimally Invasive Direct Lateral Transpsoas Interbody Fusion. Includes new chapters on Microvascular Decompression and Brachial Plexus Injury Nerve Grafting and Transfers.

Video Atlas of Neurosurgery: Contemporary Tumor and Skull Base Surgery is a unique resource that consists of 40 procedural videos and a concise companion book to reinforce your understanding of the material. Dr. Alfredo Quiñones-Hinojosa brings together a group of outstanding faculty, residents, and fellows lead by Dr. Jordana Rincon-Tororella, who carefully designed, assembled, and edited each chapter. The videos are enhanced through the inclusion of intraoperative photos, anatomical dissections, outstanding anatomical drawings, and animations that detail key steps and provide the experience of viewing a real-time surgery. Whether consulted together or independently of each other, the video and print content deliver all of the expert knowledge you need for effectively planning and understanding tumor and skull base surgeries. Step-by-step, state-of-the-art videos – 40 in total – are accessible through Expert Consult and narrated by Dr. Quiñones-Hinojosa. Each video is around 10 minutes with a total running time of over 6 hours Videos highlight key surgical anatomy, focusing special attention on the relationship between lesions and important landmarks. Procedures are broken down step-by-step for easy overview and comprehension. Covers advanced techniques such as: intraoperative brain mapping; intraoperative assessment of resection through IMRI; fluorescence imaging; brain stem mapping techniques; combined open-and-endoscopic approaches, cortical-subcortical stimulation in awake surgery; and more. Dedicated neurosurgical artwork by Devon Stuart includes superb figures that depict the surgical neuroanatomy and approaches for a step-wise fashion. Chapters are presented from the less complex, more common surgeries to the most complex and cutting-edge procedures that may require multidisciplinary approaches.

Wherever, wherever, or however you need it, unmatched procedural guidance is at your fingertips with the new edition of Schmidek surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arterio-venous malformations. Take it with you anywhere! Access the full text, downloadable image library, video clips, and more at www.expertconsult.com. With 337 additional expert contributors. Get procedural guidance on the latest neurosurgical operative techniques from Schmidek & Sweet on your shelf, laptop and mobile device.

Wherever, wherever, 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. Cover your skills for virtually every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Review clinical information on image-guided technologies and interventional techniques. Easily understand and apply techniques with guidance from more than 1,600 full-color illustrations.

Unique in the field, Intrinsic and Skull Base Tumors presents commonly encountered skull base and intrinsic neoplasm cases with side-by-side, case-by-case comparisons that clearly show how various experts would handle the same case. This inaugural volume in the Neurosurgery: Case Comparison Series offers multiple opinions from international experts in neurosurgery who provide various approaches and management styles for the same case. This format allows for quick and helpful comparisons of different ways to approach a lesion, advantages and disadvantages of each approach, and what each expert is looking for in how they would manage a particular case. Offers 3 to 4 expert opinions on each case in a templated format designed to help you quickly make side-by-side comparisons—an ideal learning tool for both trainees and practicing neurosurgeons for board review and case preparation. Helps you easily grasp different approaches to brain tumor management with different expert approaches to the same
case and summaries from the editors on the advantages and disadvantages to each approach. Features a wide variety of management decisions from preoperative studies to surgical approach, surgical adjuncts, and postoperative care. From experts in the field who specialize in different aspects of neurosurgery. Covers low and high grade gliomas, metastatic brain tumors, meningiomas, skull and paranasal lesions, skull base lesions, and other brain lesions such as epidermoid cysts, cavernomas, gliomas, intracranial, brain abscess, and more.

In the latest edition of Benzel's Spine Surgery, renowned neurosurgery authority Dr. Edward C. Benzel, along with new editor Dr. Michael P. Steinmetz, deliver the most up-to-date information available on every aspect of spine surgery. Improved visuals and over 100 brand-new illustrations enhance your understanding of the text, while 26 new chapters cover today’s hot topics in the field. A must-have resource for every neurosurgeon and orthopedic spine surgeon, Benzel's Spine Surgery provides the expert, step-by-step guidance required for successful surgical outcomes. Glean essential, up-to-date information in one comprehensive reference that explores the full spectrum of techniques used in spine surgery. Covers today’s hot topics in spine surgery, such as pelvic parameters in planning for lumbar fusion; minimally invasive strategies for the treatment of tumors and trauma of the spine; and biologics and stem cells. A total of 18 operative videos allow you to hone your skills and techniques. New editor Michael P. Steinmetz brings fresh insights and improvements to the text. Features the addition of 26 chapters, including: -Biologics in Spine Fusion Surgery -Endoscopic and Transnasal Approaches to the Craniovertebral Junction -Cellular Injection Techniques for Discogenic Pain -Minimally Invasive Techniques for Thoracolumbar Deformity -Spinal Cord Hemiation and Spontaneous Cerebrospinal Fluid Leak -MIS Versus Open Spine Surgery

Extensive revisions to many of the existing chapters present all of the most up-to-date information available on every aspect of spine surgery. Improved visuals and over 100 brand-new illustrations enhance learning and retention.

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.

"... the neurosurgical primer that every resident will own and study" - Robert Spetzler Given that the great majority of brain surgeries are preceded by a craniotomy, mastering the procedure is essential for junior residents. Choosing the appropriate craniotomy and executing it safely is the difference between a straightforward case with good access to the target and a procedure where access to the target is needlessly traumatic and may even be impossible. Professor Raabe's The Craniotomy Atlas provides precise instructions for performing all common neurosurgical cranial exposures, including: convexity approaches, midline approaches, skull base approaches, transphenoidal approaches and more. Instructions for each craniotomy include positioning, head fixation, aesthetic considerations, and protecting the dura mater. Special Features: More than 600 high-quality operative photographs and brilliant illustrations support the step-by-step descriptions, with all the precision and attention to detail that neurosurgeons have come to expect from the editor Professor Raabe, and the associate editors Professors Meyer, Schaller, Vajkoczy, and Winkler. Full coverage of complications and risk factors Checklist with summaries of the critical steps All residents and trainees in neurosurgery will treasure this essential resource, which will help build confidence when performing these critical neurosurgical procedures.

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