Controversies in Skull Base Surgery
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Skull Base Surgery: Strategies
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Endoscopic Surgical Anatomy of the Orbit
Atlas of Surgical Approaches to Paranasal Sinuses and the Skull Base
Otology, Neurotology, and Skull Base Surgery
Atlas of Neurosurgical Techniques
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Surgical Anatomy of the Internal Carotid Artery
Atlas of Neurotologic and Lateral Skull Base Surgery
Photo Atlas of Skull Base Dissection
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Cranial, Craniofacial and Skull Base Surgery

Controversies in Skull Base Surgery

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 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.

An Atlas of Head and Neck Surgery

"... 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, transsphenoidal 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.

**Atlas of Skull Base Surgery**

This richly illustrated atlas, compiled by authors with extensive experience in the field, offers a step-by-step guide to the surgical treatment of tumors, and congenital diseases of the skull base and nasal sinuses. Particular attention is devoted to the various techniques employed for extirpation of tumors and reconstruction of the skull base and Paranasal Sinuses. In order to facilitate understanding of the different approaches, clear surgical illustrations are presented alongside the high-quality intraoperative photographs. Whenever appropriate, technical tips are provided and briefly discussed. This atlas will appeal to a broad audience of residents, fellows, and consultants in different fields of medicine, including surgeons (head and neck, neurosurgery, otolaryngology, plastic and reconstructive surgery, ophthalmology, maxillofacial surgery) and oncologists.

**Atlas of Head and Neck Robotic 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 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.

**Vascularature of the Brain and Cranial Base**

Written by leading skull base surgeons from the renowned House Clinic in Los Angeles, California, Lateral Skull Base Surgery: The House Clinic Atlas is a much-needed reference that contains detailed descriptions of the techniques used in lateral skull base surgery. This atlas covers topics ranging from auditory brainstem implants to vestibular schwannoma, providing readers with a comprehensive overview of surgical procedures and techniques used to treat a variety of skull base diseases. Special Features: The accompanying DVD contains 8 surgical videos of the most common techniques presented in the book. More than 180 high-quality illustrations depict step-by-step surgical procedures. Every chapter is informed with the expertise of House Clinic skull base surgeons. This atlas offers insights and expertise from some of the most respected surgeons in the world and is an essential resource for otolaryngologists, head and neck surgeons, plastic surgeons, maxillofacial surgeons, and fellows preparing for and performing lateral skull base surgery as well as other physicians interested in this growing specialty.

**Endoscopic Transnasal Anatomy of the Skull Base and Adjacent Areas**

Handbook of Skull Base Surgery is a state-of-the-art surgical guide that provides clinicians...
and surgeons with step-by-step instructions on how to perform microscopic and endoscopic procedures. Encompassing the entire skull base, this handbook is designed for busy residents and clinicians seeking to hone their surgical skills. It presents a multidisciplinary approach to the pathologies, diagnosis, and management of skull base lesions. Key Features: Bulleted format with step-by-step descriptions of procedures accompanied by high-quality illustrations of key points. Succinct summaries of content enable readers to quickly obtain the information they need. Includes coverage of relevant basic sciences, advanced imaging, and adjunctive treatments such as radiosurgery and chemotherapy. Comprehensive yet conveniently compact, this book is a must-have reference for residents, clinicians, nurses, and researchers caring for patients with skull base pathologies.

**Atlas of Head and Neck Cancer Surgery**

**Lateral Skull Base Surgery**

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 to the difficult yet essential art of skull base surgery.

**Color Atlas of Microneurosurgical Approaches**

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 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.

**Atlas of Endoscopic Sinus and Skull Base Surgery**

**Atlas of Sellar and Parasellar Lesions**
Sinonasal Tumors

Endoscopic orbital procedures are at the forefront of today's multidisciplinary patient care and team approach to problem-solving. Endoscopic Surgery of the Orbit offers state-of-the-art, expert guidance on minimally invasive orbit techniques that promise a more streamlined approach to comprehensive patient care, improved patient satisfaction, and superior outcomes. This unique resource reflects the contemporary, unparalleled partnership between otolaryngology, neurosurgery, and ophthalmology that often also includes a cohesive team of clinicians from many other specialties. Provides expert perspectives from thought leaders in various specialties, including otolaryngologists, ophthalmologists, neurosurgeons, endocrinologists, medical and radiation oncologists, radiologists, and pathologists. Details the two-surgeon, multi-handed surgical techniques that have revolutionized the management of complex pathologies involving the orbit and skull base. Covers the full breadth of endoscopic orbital procedures—from advanced intracranial tumor removal and intracranial techniques involving the optic nerve and optic chiasm to more routine endoscopic procedures such as orbital decompressions, E-DCR, fracture repair, and subperiosteal abscess drainage. Reviews key topics such as neuromonitoring in orbital and skull base surgery, endoscopic surgery of the intracranial space for tumor resection, Transorbital NeuroEndoscopic Surgery (TONES), and reconstruction of the orbit. Includes tips and pearls on safe and effective procedures as well as novel approaches and innovations in the equipment used to perform these popular procedures. Provides superb visual reinforcement with more than 400 high-definition images of anatomy, imaging, and surgical techniques, as well as procedural videos.

Atlas of Temporal Bone and Lateral Skull Base Surgery

Microsurgical Anatomy and Surgery of the Central Skull Base

This book presents, in a stepwise and interactive fashion, approximately 75 cases that reflect the wide spectrum of pathology encountered in this region. Each case description commences with a concise clinical scenario. High-quality radiologic, laboratory, and histopathologic images depicting the differentiating features of the lesion subtype in question are then presented, and key operative and clinical management pearls are briefly reviewed. The interdisciplinary nature of this easy-to-use color atlas and textbook reflects the fact that the management of patients with sellar and parasellar lesions is itself often interdisciplinary. The format is unique in that no similar interdisciplinary book is available on lesions of this region of the brain. Atlas of Sellar and Parasellar Lesions: Clinical, Imaging, and Pathologic Correlations is of great value for practitioners and trainees in a range of medical specialties, including radiology, neurology, endocrinology, pathology,
Color Atlas of Head and Neck Surgery

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 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.

Color Atlas of Microneurosurgery

This richly illustrated ear microsurgery atlas shows a picture is worth a thousand words! In order to envision a three-dimensional picture of the surgical space and ultimately to master surgery, surgeons need thorough visual and clinical knowledge of anatomy. Ear Surgery Illustrated: A Comprehensive Atlas of Otologic Microsurgical Techniques by renowned surgeon Robert Jackler and illustrator Christine Gralapp reflects more than three decades of collaboration. The color illustrations herein communicate a wealth of surgical anatomy and technique with exceptional clarity and precision. Succinct, insightful text paired with the drawings delineate key landmarks, define crucial relationships, and elucidate complex concepts. Fifteen chapters encompass the broad spectrum of modern otological surgery practice — from commonplace procedures to complex tertiary-quaternary operative care. The appendix features helpful educational handouts surgeons can give to patients. Key Features More than 1,100 precise full-color illustrations with explanatory text cover a broad range of microsurgical approaches. A wide range of surgical procedures including stapes surgery, tympanoplasty, ossiculoplasty, mastoidectomy, vestibular surgery, cochlear implants, temporal bone resection, and petrous apicectomy. Management of various diseases and conditions such as cholesteatoma, facial nerve issues, temporal bone fractures, hearing loss, encephaloceles, cerebrospinal fluid leaks, and pulsatile tinnitus. Stepwise procedural guidance throughout the atlas enables novice otolaryngologists and subspecialty otologists to achieve optimal surgical outcomes. Experienced surgeons will find insightful tips and helpful tricks to refine skills and tackle more complex technical challenges encountered in practice. Paired with Robert Jackler's
and Christine Gralapp's Atlas of Skull Base Surgery and Neurotology Second Edition, the two books meld visual and clinical knowledge into remarkable resources covering otological, neurotological, and lateral skull base surgery techniques.

**Atlas of Pediatric Head and Neck and Skull Base Surgery**

This clinical book + videos embraces the spectrum of craniofacial surgery. Written by the world's foremost experts, Atlas of Operative Craniofacial Surgery with its accompanying videos is a unique resource that offers the reader a succinct yet comprehensive guide to performing craniofacial operations. In each chapter, renowned specialists share their strategies for selecting patients, executing effective preoperative planning, comprehending detailed operative techniques, instituting postoperative care best practices, dealing with possible complications, and much more. Key Features The wide array of covered topics includes the cranial vault, reconstruction of the facial bones, orbital fracture repair, rhinoplasty, maxillary and mandibular operations, ear reconstruction, and cleft lip and palate repair. Over 1400 intraoperative photos and 300 drawings guide the reader through each operative procedure in a step-by-step fashion. Emphasis on how the procedures are performed, rather than on theory. Includes case studies that show the results of the discussed techniques. Accompanied by 20 surgical technique videos. Presented in cooperation with the American Society of Maxillofacial Surgeons (ASMS) and the American Society of Craniofacial Surgery (ASCFS), this beautiful atlas is essential for all those involved with craniofacial surgery, including craniofacial surgeons, craniofacial surgery fellows, maxillofacial residents, and others.

**Handbook of Skull Base Surgery**

A state-of-the-art resource on head, neck, and skull base surgical procedures in children. Pediatric otolaryngology is a rapidly expanding field with remarkable technological advances that have improved the quality of life for young patients. Many highly complex pediatric head and neck procedures are not commonly performed, resulting in a paucity of resources. Atlas of Pediatric Head and Neck and Skull Base Surgery by renowned surgeons Dan M. Fliss, Ari DeRowe, and an impressive group of interdisciplinary innovators fills a gap in the literature. The richly illustrated atlas features a detailed discussion and guidance on groundbreaking surgeries developed and currently performed by top academic surgeons in the field, many of whom contributed to this book. The introductory section lays a solid foundation of knowledge, with discussion of pediatric anatomy, distinctive topography of the skull base, anesthesia and pain control considerations, and imaging modalities. Fifty-four subsequent chapters encompass a rich spectrum of approaches and pediatric pathologies, organized by head and neck; skull base and craniofacial; airway, voice, and swallowing; trauma; and reconstruction sections. Surgical chapters include an introduction; evidence-based guidelines; preoperative, anesthetic, intraoperative and postoperative considerations; techniques and positioning; extensive references; and more. Key Features Concise, targeted descriptions of preoperative, perioperative, and postoperative considerations enhance the ability to deliver high-quality surgical care and achieve optimal outcomes. Bulleted list of highlights at the end of each surgical chapter provide a quick reference. Detailed, high-quality color illustrations and surgical photographs enhance understanding of impacted anatomy and techniques. This is an essential reference for otolaryngology, maxillofacial, plastic reconstructive, and neurosurgery residents, as well as for pediatric otolaryngology and head and neck fellows. Practicing head and neck surgeons and pediatric otolaryngologists will also find it beneficial.

**Video Atlas of Neurosurgery E-Book**
Gain a clear understanding of the entire spectrum of today’s rhinology and anterior skull base surgery with Atlas of Endoscopic Sinus and Skull Base Surgery, 2nd Edition. This thoroughly updated title increases your knowledge and skill regarding both basic or advanced procedures, taking you step by step through endoscopic approaches to chronic sinus disease, nasal polyps, pituitary tumors, cerebrospinal fluid leaks, sinonasal tumors, and more. Covers the full range of modern rhinology and anterior skull base surgery, from septoplasty and sphenoidectomy to extended frontal sinus procedures, endoscopic craniofacial resections and complex skull base reconstructions. Clearly conveys the anatomy and detailed steps of each procedure with concise, step-by-step instructions; visual guidance features high-definition, intraoperative endoscopic photos paired with detailed, labeled anatomic illustrations. Includes new content on anterior skull base surgery that reflect new developments in the field. Helps you provide optimal patient care before, during, and after surgery with detailed information on relevant anatomy and surgical indications, instrumentation, potential pitfalls, and post-operative considerations.

**Skull Base and Related Structures**

Long awaited, this fine surgical atlas covers all aspects of neuro-otology and lateral skull base procedures in comprehensively in detail. The lavishly illustrated step-by-step guide is written by two American experts to ensure continuity between topics. The text is highly structured with step-by-step explanation of each surgical procedure and TIPS and TECHNIQUES sections as well as a PEARLS section in each chapter. More than 200 superb artwork illustrations describe each surgical procedure with nearly 600 additional intraoperative pictures with CT and MRI images to teach specific case examples. This offers a complete educational experience for the skull base surgeon in training and a thorough reference for the experienced surgeon.

**Endoscopic Skull Base Surgery**

**Atlas of Endoscopic Sinus and Skull Base Surgery E-Book**

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. Jordina Rincon-Torroella, 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 in 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.
**Atlas of Head and Neck Surgery**

This Second Edition of ATLAS OF HEAD AND NECK SURGERY presents an even more comprehensive reference for procedures performed routinely in head and neck surgery. This book is carefully illustrated and is a fully updated, clear and concise, step-by-step surgical guide. Provides step-by-step instructions for a variety of surgical challenges and describes variations for use in different situations. Illuminates text discussions and authors procedures through clear, detailed illustrations. Expands and updates the laryngeal, endocrine, salivary, skull base, and oral cavity chapters. Enhances previous editions artwork with new illustrations drawn by a master medical illustrator. Reviews current reconstructive methods, including a clear approach to free flap reconstruction.

**Ear Surgery Illustrated**

This atlas provides all the basic and advanced information required by surgeons in order to understand fully the skull base anatomy. It is organized according to anatomo-surgical pathways to the hidden areas of the skull base. These pathways are described in step-by-step fashion with the aid of a wealth of color images and illustrations. The emphasis is on endoscopic anatomy, but in order to provide a holistic perspective, informative three-dimensional reconstructions are presented alongside the endoscopic images and radiologic images are included when appropriate. In effect, windows are opened on the anatomy so that the reader is guided on a journey throughout the skull base region. This anatomically oriented atlas will serve as an ideal learning tool for novice surgeons and will also prove an invaluable reference for the more experienced surgeon.

**Atlas of Skull Base Surgery and Neurotology**

The second edition of "Atlas of Skull Base Surgery and Neurotology" presents an up-to-date reference for the latest techniques in the challenging area of skull base surgery.

**Atlas of Operative Craniofacial Surgery**

Tips and pearls on the latest developments on endoscopic approaches to skull base and brain surgery from experts around the globe ideal for both otolaryngologist head 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 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 otolaryngology head and neck surgery who deals with this delicate anatomic region.

**Skull Base Surgery: Strategies**
The purpose of this book is to present a modern way to treat sinonasal tumors with respect to traditional tumor extirpation principles and the need for radical excisions when the indications arise. Sinonasal Tumors provides a comprehensive resource for the management of benign and malignant tumors of the paranasal sinuses. In Sinonasal Tumors, there are many chapters elaborating on some of the scientific advancements in diagnosis such as improved imaging techniques and pathological diagnosis, as well as ample space devoted to the operative technique and adjunctive trea.

**The Craniotomy Atlas**

The atlas covers the normal microsurgical anatomy of the central skull base as well as the pathological anatomy of the tumorous and vascular lesions of this region. The book gives a detailed description of the contemporary approaches to the individual pathologies in the central skull base which have evolved in the last 15 years. Complete or partial resection of the tumorous lesions, the exclusion of aneurysms and preservation of the patency of the internal carotid artery are given. A unique source of technical data and statistics that allows careful evaluation of the approaches to the region based on a precise understanding of the underlying anatomy.

**Transnasal Endoscopic Skull Base and Brain Surgery**

Nothing is more striking in neurovascular anatomy than the myriad varieties of branching & configuration of vessels. Even the experienced neurosurgeon cannot always be certain of the precise anatomy nor the neuroradiologist the intricacies of the vasculature on angiographic film.

**Endoscopic Surgery of the Orbit E-Book**

Surgery for head neck cancer has evolved greatly in the recent years. Appropriate surgical resection with negative margins still remain corner-stone in achieving good oncological outcome. This atlas proposes a new concept of " The Compartment Surgery " to achieve negative margins in third dimensions which is the problem area in majority of cases. Reconstructive techniques have evolved vastly in the recent years with use of microvascular free flaps and this has significantly improved the functional outcome. Performing each step in appropriate manner cumulatively enables us to perform more complex procedures. Theme of this atlas revolves around this fact. This atlas on head and neck cancers takes a fresh stylistic approach where each surgical procedure is described in a step-wise manner through labeled high-resolution images with minimal incorporation of text. This allows the surgeons to rapidly revise the operative steps of a procedure within minutes just before they start a surgery. Head and neck has multidimensional anatomy and surgical treatment requires specific approach for each subsite. This operative atlas covers the entire spectrum of common, uncommon and rare cancers of the head and neck area. Each subsite is addressed in a separate chapter with further subdivisions for surgery of tumors with varying extent. Each procedure is demonstrated with photographs of each surgical step and line diagrams. Commonly used flaps (regional and free flaps) are demonstrated in separate chapter for reconstruction. With over 1000 images, and coverage of both the ablative and reconstructive surgical procedures, this is a technique-focused atlas in comparison to the available comprehensive texts. There are two chapters on very advanced cancers, and surgery in resource constrained surgical units making the book relevant to a wide range of cancer surgeons and fellows-in-training in varied clinical settings.

**Atlas of Surgical Approaches to Paranasal Sinuses and the Skull**
This atlas offers precise, step-by-step descriptions of robotic surgical techniques in the fields of otolaryngology and head and neck surgery, with the aim of providing surgeons with a comprehensive guide. The coverage encompasses all current indications and the full range of robotic surgical approaches, including transoral, transaxillary, transmaxillary, and transcervical. Key clinical and technical issues and important aspects of surgical anatomy are highlighted, and advice is provided on ancillary topics such as postoperative care and robotic reconstructive surgery. Robotic surgery has proved a significant addition to the armamentarium of tools in otolaryngology and head and neck surgery. It is now used in many centers as the workhorse for resection of oropharyngeal and laryngeal tumors, thyroid surgery, and base of tongue resection in patients with obstructive sleep apnea. The da Vinci robotic system, with its three-dimensional vision system, is also excellent for parapharyngeal, nasopharyngeal, and skull base resections. This superbly illustrated book, with accompanying online videos, will be ideal for residents in otolaryngology–head and neck surgery and skull base surgery who are working in a robotic cadaver lab and for specialists seeking to further improve their dissection techniques.

Improve your surgical outcomes with Atlas of Endoscopic Sinus and Skull Base Surgery by James N. Palmer, MD and Alexander G. Chiu, MD. Ideal for every otolaryngologist who performs basic or advanced rhinologic procedures, this beautifully illustrated atlas takes you step by step through endoscopic sinus and skull base surgeries as if the chapter authors were right there with you in the operating room. Benefit from the extensive knowledge and experience of leaders in the field as they walk you through endoscopic approaches to chronic sinus disease, nasal polyps, pituitary tumors, cerebrospinal fluid leaks, sinonasal tumors, and much more. Employ state-of-the-art techniques in your practice, from septoplasty and sphenoethmoidectomy to extended frontal sinus procedures, endoscopic craniofacial resections, balloon dilation, and complex skull base reconstructions. Visualize every step of each procedure thanks to high-definition, intraoperative endoscopic photos paired with detailed, labeled anatomic illustrations. Achieve optimal patient care before, during, and after surgery with detailed information on relevant anatomy and surgical indications, instrumentation, potential pitfalls, and postoperative considerations. Access the entire text and illustrations online, fully searchable, at www.expertconsult.com.

Become familiar with the key anatomic "corridors" in the skull base, the sinonasal tract, and adjacent areas to guide and greatly expand your endoscopic surgical competence. Highlighting the most recent experience from seven top leaders and innovators in the field, this seminal new work presents detailed topographic anatomy of the skull base and adjacent areas in a way not previously seen before. The result is a multidisciplinary atlas merging anatomy, otolaryngology, neurosurgery, and radiology, so as to facilitate creation of a mental "virtual reconstruction" of the complete approach and operative situs. The result is a greatly extended range of surgical possibilities into previously uncharted territory using endoscopic technology. Key Features: Provides the basis for cultivating a firm and confident understanding of the 3D anatomy of this intricately complex region Emphasizes the ability of the endoscopic surgeon to integrate CT and MRI findings into the surgical planning process A logical and modular organization of the contents intends to make for easy correlation with the surgical literature Brilliant step-by-step presentation of dissections using cadavers, helping readers to fully understand all the anatomical nuances Numerous previously unpublished approaches covered here for the first time in a book,

**Atlas of Oral and Maxillofacial Surgery- E-Book**

Operative procedures performed directly on the base of the brain, inner ear, and cranial nerves are inherently delicate undertakings further complicated by the difficulty of achieving easy access to this confined space. Written by pioneers working at one of the world's leading centers for advanced neurosurgery, An Atlas of Skull Base Surgery clearly describes the steps by which each of the key anatomical structures at the skull base and inner ear may be accessed in order to perform advanced surgical interventions. Featuring over 170 specially commissioned diagrams, and over 100 photographs of MRI, CT, and other imaging modalities, the atlas comprehensively covers a range of surgical approaches. The authors use the detailed supporting artwork to demonstrate the main steps in each procedure and help readers conceptualize the anatomy and surgical trajectory. With extensive accompanying notes on patient assessment and postoperative care, An Atlas of Skull Base Surgery facilitates the complete evaluation and management of patients with skull base lesions in which the clinical presentation or cell type mandates an operative procedure.

**Rhoton's Atlas of Head, Neck, and Brain**

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 in truly “modern” and represents in many aspects pinnacles of operative achievement. We must ask ourselves, what will be next? Los Angeles, November 2009 Michael L.J. Apuzzo, M.D., Ph.D (hon) Preface We belong to a lucky and happy generation, living during a period of many dramatic, if not revolutionary, technical and technological innovations, such as the digital era, which have changed and improved our routine surgical practice, together with the quality and quantity of life of our patients.

**Surgical Anatomy of the Internal Carotid Artery**

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 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.

**Atlas of Neurotologic and Lateral Skull Base Surgery**

Masterful 2D and 3D head, neck, and brain dissections provide unsurpassed insights into head, neck, and brain anatomy. An internationally renowned and beloved author, educator, brain anatomist, and neurosurgeon, Professor Albert Rhoton has a special place in medical history. He was revered by students and colleagues and is regarded as one of the fathers of modern microscopic neurosurgery. A driving principle in his anatomy lab was the simple phrase, "Every Second." This was embraced in his philosophy that every second of every day, a patient's life was improved by a surgeon assisted by the anatomic knowledge his lab helped elucidate and distribute. Rhoton's Atlas of Head, Neck, and Brain is the visually exquisite crowning achievement of Dr. Rhoton's brilliant career and unwavering dedication to the intertwined pursuits of surgical anatomy and neurosurgery. The atlas reflects the unparalleled contributions Dr. Rhoton made to the contemporary understanding of neurosurgical anatomy. Dr. Peris-Celda, with the collaboration of an impressive cadre of international multidisciplinary experts, worked closely under Dr. Rhoton's tutelage on this project. This book is the culmination of 5 years of work and experience gleaned from more than 40 years of surgical anatomy research and exquisite dissection techniques performed in Dr. Rhoton's laboratory. Special Features: Each anatomic dissection meticulously labeled with English and Latin descriptors for easy cross referencing with other resources. Multiple views of the most complex regions of the head, neck, and brain provide a deeper understanding of anatomy. More than 600 anatomical images systematically organized in four major sections: Osteology of the Head and Neck; Face and Neck; Ear, Nose, Pharynx, Larynx, and Orbit; and Neuroanatomy and Cranial Base. Superb 2D images presented in a large printed format to optimize the viewing experience. 3D digital images fully realize the beauty of the dissections and enhance the learning process. Specimens injected with colored silicone provide better visualization of arteries and veins. Breathtakingly stunning, this atlas is certain to be a treasured reference for medical students, residents, and clinicians specializing in neurosurgery, facial plastic surgery, otolaryngology, maxillofacial surgery, and craniofacial surgery for many years to come.

**Photo Atlas of Skull Base Dissection**

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.

**Microsurgery of the Skull Base**

From reviews of previous volumes: Ranks with the very best previous attempts at codifying neurosurgical operations. The attention to detail is excellent. - The New England Journal of Medicine A valuable addition to any library. Would recommend it to all neurosurgeons with an interest in cerebrovascular disease. The operative photographs are of extremely high quality. - Chicago Medicine The final volume in the acclaimed series provides coverage of the anatomy, surgical approaches, and techniques involved in performing cerebral revascularization. Filled with over 2,000 vibrant images, it provides the visual instruction neurosurgeons need. Highlights include: A complete section detailing intracranial vasculature and anatomy of the spinal cord. A case material section featuring a rich diversity of clinical situations to illustrate a variety of microsurgical techniques. Thorough coverage of bypasses, reconstructions, and the use of endarterectomy to achieve revascularization. Presentation of both surgical and endovascular techniques for re-establishing blood flow through the carotid and cerebral arteries. Information on tumors of the spinal cord and spinal vascular malformations, particularly cavernous and arteriovenous malformations.

**Cranial, Craniofacial and Skull Base Surgery**

Enhance your OMS surgical skills with Atlas of Oral and Maxillofacial Surgery! This practical guide, written by respected international contributors and edited by OMS experts Deepak Kademani and Paul Tiwana, offers detailed, step-by-step instructions and over 2,000 full-color illustrations that demonstrate how to plan for and perform oral and maxillofacial surgical procedures safely and efficiently. Comprehensive coverage addresses the broad scope of the specialty, ranging from the surgical anatomy of the head and neck to oral surgery, implant surgery, orthognathic and craniofacial surgery, cleft lip and palate, craniomaxillofacial trauma, management of head and neck surgery, reconstructive procedures, TMJ surgery, and aesthetic facial surgery. A comprehensive approach to OMS operative procedures offers practical guidance to the management of patients with oral and maxillofacial disorders, with each surgical procedure chapter approximately six to eight pages in length and covering the following topics: armamentarium, history of the procedure, indications for use of the procedure, limitations and contraindications, technique, alternate or modified technique, avoidance and management of intraoperative complications, and postoperative considerations. Detailed, step-by-step approach shows how to perform OMS surgical procedures safely and efficiently. Coverage of alternative and modified techniques addresses options other than the standard techniques. A full-color design makes the text easier to navigate. Expert, international contributors provide authoritative guidance on the OMS procedures they typically perform.

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