



# Cranial Base Surgery

**Raj Sindwani, Pablo F. Recinos, Troy D.  
Woodard**

## **Cranial Base Surgery:**

Endoscopic Approaches to the Skull Base A.B., Kassam, P.A., Gardner, 2012-07-01 During the last decade the endoscopic endonasal approach EEA to the skull base has become a very powerful method to add to the array of neurosurgical technologies This volume provides a broad overview of the role of transnasal approaches in a wide spectrum of skull base diseases It starts with a historical perspective of the evolution from the microscope to the endoscope in endonasal surgery and then explores in depth the principles and techniques of the various methods Discussed are topics based on anatomical boundaries pituitary fossa to the suprasellar space to the cavernous sinus clivus and the anterior cranial fossa Access to the infratemporal and posterior fossae via both the endoscopic endonasal and the retrosigmoid approaches are reviewed In addition the critical topic of reconstruction following minimally invasive skull base surgery and finally the learning curve and complications associated with the applications of these new and exciting approaches are discussed This volume will provide the latest knowledge to help neurosurgeons otolaryngologists head and neck surgeons as well as craniofacial surgeons understand the applications and practice of this important technique

*Minimal Access Skull Base Surgery* Kofi Boahene, Alfredo Quiñones-Hinojosa, 2016-04-30 *Minimal Access Skull Base Surgery Open and Endoscopic Assisted Approaches* is a highly illustrated guide to a range of approaches in ENT surgery edited by Kofi Boahene and Alfredo Quiñones Hinojosa from the John Hopkins Medical Institute Baltimore USA The book focuses on minimal access approaches to skull base compartments using an endoscope via natural and secondary openings into the head Comprised of 31 chapters across seven sections the book begins with a general introductory section which covers imaging of the skull base surgical pathology of the skull base and anaesthetic requirements for skull base surgery Further sections cover approaches to surgery via particular anatomical areas including transorbital supraorbital transnasal infratemporal fossa and transoral approaches The concluding sections cover the management of selected skull base lesions skull base reconstruction and postoperative management *Minimal Access Skull Base Surgery Open and Endoscopic Assisted Approaches* is enhanced by 428 images and illustrations and an accompanying DVD featuring practical guidance on several procedures This is an essential resource for neurosurgeons otolaryngologists head and neck surgeons and any health care providers involved in these minimal access procedures

*Key Points Comprehensive guide to minimal access procedures in skull base surgery* Covers minimal access skull base surgery via nose mouth eye socket and infratemporal fossa 428 images and illustrations Instructional DVD for several skull base procedures Edited Kofi Boahene and Alfredo Quiñones Hinojosa based at John Hopkins Medical Institute Baltimore USA

Skull Base Surgery Charles E. Moore, Jeffrey J. Olsen, 2010-03-20

*Contemporary Skull Base Surgery* A. Samy Youssef, 2022-07-05 This text is designed to function as a comprehensive guide companion that will not only facilitate the decision making process for the surgeon but also help young surgeons build a successful career in skull base surgery It is divided into six main sections The first section details the general principles that every skull base surgeon needs to be

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

**Endoscopic Cranial Base and Pituitary Surgery, An Issue of Otolaryngologic Clinics of North America** Raj Sindwani, Pablo F. Recinos, Troy D.

Woodard, 2016-01-19 This issue on endoscopic cranial base and pituitary surgery is led by experts in the field of Otolaryngology and Neurosurgery Otolaryngologists Head and Neck surgeons Dr Raj Sindwani and Dr Troy Woodard join with Neurosurgeon Dr Pablo Recinos to present a comprehensive clinical approach Topics include Building an endoscopic skull base program room setup and key equipment IGS Skull Base Anatomy corridors intra and extradural Imaging in skull base surgery CT MRI CT cisternogram intraop CT Sellar lesions pathology Principles of endoscopic pituitary surgery Reconstruction of skull base defects free graft pedicle TPF alloderm Lumbar drain utility role of intrathecal fluorescein Hemostasis in Skull Base Surgery control of smaller vessels maneuvers to minimize bleeding warm irrigations HOB up embolization Management of ICA Injury intraop options late complications Meningioma Esthesioneuroblastoma Cordoma Sinonasal Malignancies of Skull Base Craniopharyngioma Endonasal approaches to the craniocervical junction Medical complications of Pituitary skull base surgery ie SIADH DI Hypopit Post op management of skull base patient postop Abx imaging debridements topical irrigations more Articles cover surgical procedure surgical complications and surgical anatomy

as relevant to the clinical discussion      **Endoscopic and Keyhole Cranial Base Surgery** James J. Evans, Tyler J. Kenning, Christopher Farrell, Varun R. Kshetry, 2019-04-02 The first two sections of this text address endoscopic and keyhole surgical procedures for cranial base and deep brain structures These sections provide a comprehensive state of the art review of this minimally invasive field and will serve as a valuable resource for clinicians surgeons and researchers with an interest in cranial base surgery The philosophy techniques indications and limitations of endoscopic and keyhole cranial base surgery are covered in detail This reference includes a discussion of the basic principles of these approaches as well as the preoperative planning intraoperative pearls and reconstruction techniques The thorough descriptions of the practical and technical aspects are accompanied by extensive illustrations figures and operative images Extending beyond the technical details of these procedures this text provides a third section that focuses on a thorough analysis and comparison of the endoscopic keyhole and traditional open approaches to specific intracranial regions Utilizing a target based approach the utility of each surgical technique is evaluated in regard to accessing pathology of the anterior middle and posterior fossa cranial base as well as the deep central regions of the brain All chapters are written by experts in their fields and include the most up to date scientific and clinical information Endoscopic and Keyhole Cranial Base Surgery will be a valuable resource to specialists in optimizing surgical results and improving patient outcomes      **Surgery of the Skull Base** Madjid Samii, Wolfgang Draf, 2012-12-06 The region of the skull base was long considered a surgical barrier because of its complex anatomy With few exceptions the region immediately beyond the dura or bony skull base constituted a no man s land for the surgeon working from the other direction A major reason for this was the high morbidity associated with operative procedures in that area using traditional dissection techniques This situation changed with the advent of the operating microscope Used initially by ear nose and throat specialists for resective and reconstructive surgery of the petrous bone and paranasal sinuses the operating microscope was later introduced in other areas and neurosurgeons began using it in the mid 1960s With technical equality thus established the groundwork was laid for taking a new systematic and interdisciplinary approach to surgical problems of the skull base Intensive and systematic cooperation between ear nose and throat surgeons and neurologic surgeons had its origins in the departments of the University of Mainz kindly supported by our chairmen Prof Dr Dr hc Kurt Schiirmann Department of Neurosurgery and Prof Dr W Kley Department of Ear Nose and Throat Diseases Head and Neck Surgery The experience gained from this cooperation was taught in workshops held in Hannover from 1979 to 1986 acquiring a broader interdisciplinary base through the participation of specialists from the fields of anatomy pathology neuroradiology ophthalmology and maxillofacial surgery      *Endoscopic Skull Base Surgery* Hrayr K. Shahinian, 2008-04-26 I am honored to be asked to write a foreword to this comprehensive and fascinating book on skull base surgery SBS by Dr Shahinian who I consider among the pioneers in the field I should start by writing a disclaimer I first met Dr Shahinian when he was a brilliant surgical resident at Vanderbilt University Medical Center in 1986 Over the next several

years I had the pleasure of following his career through different training rotations in the United States and abroad I remember well when he told me that skull base surgery was his career choice I thought it was a high risk career move considering that the discipline was still in its early development As a result I was quite gratified to follow Dr Shahinian s professional success as he developed the Skull Base Institute initially in New York and later in Los Angeles I would like to first define SBS from my perspective as a general surgeon SBS denotes a group of operations involving the base of the skull or its contents The skull base is divided into an anterior attached to the facial skeleton middle and posterior areas Vital arteries veins as well as cranial nerves pass through the skull base Consequently this part of the skull has historically been the most difficult to access and lesions of the skull base were often associated with a poor prognosis

**Cranial, Craniofacial and Skull Base Surgery** Paolo Cappabianca, Luigi Califano, Giorgio Iaconetta, 2010-11-01 The Fruits of Reinvention Surgery related to the human head its compartment and contents has been reinvented over the past 40 years A number of instruments most notably the sophisticated medical imaging device and the operating microscope have principally fueled this evolution Along the way endoscopy and sophisticated navigation capabilities have added to the realization of a unique comprehension of normal and abnormal microanatomy permitting corridors and manipulations that allow novel strategies for surgery in these highly vital functional areas Cappabianca Califano and Iaconetta have created a detailed and fully modern review of methods and strategies related to complex surgery and therapies associated with this robust reinvention Technical innovations abound Distinguished practitioners of these unique developments in the history of surgical terprise 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

**Skull Base Surgery** Walter C. Jean, 2019-02-22 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

*Cranial Base Surgery* James T. Robertson, Jon H. Robertson, Hugh B. Coakham, 2000 This comprehensive new reference addresses the entire spectrum of cranial base surgery today The clinically oriented text is enhanced by numerous illustrations and is highly practical in its orientation Each chapter has been written by a carefully chosen expert from within the field

*Surgery of the Cranial Base* Ossama Al-Mefty, 1989-04-30

*Midline Skull Base Surgery* Paolo Cappabianca, Luigi Maria Cavallo, Oreste de Divitiis, Felice Esposito, 2015-11-25 This richly illustrated book offers detailed step by step guidance on surgical approaches and techniques in patients with midline tumors of the skull base Access routes are described from both endoscopic and microscopic standpoints via different approaches in order to provide a 360 degree overview of contemporary midline skull base surgery For each pathology the multiple surgical options and their specific indications are clearly presented with inclusion of neuroradiological images an anatomical dissection study and operative images and videos The book is intended for surgeons who wish to acquire knowledge and experience in skull base surgery employing endoscopic endonasal and microsurgical transcranial techniques It is exceptional in providing an integrated perspective that encompasses traditional microsurgical approaches and the most recent endoscopic ones with definition of the indications for and limitations of both options

*Microsurgery of the Skull Base* Douglas E. Mattox, Ugo Fisch, 1988-10-13 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 will find general considerations surgical techniques applications tips and pitfalls 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

**Transnasal Endoscopic Skull Base and Brain Surgery** Aldo C. Stamm, 2019-07-19 Outstanding endoscopic skull base surgical resource presents cutting edge approaches from multidisciplinary global experts Transnasal endoscopic skull base and brain surgery have undergone major technical advances in recent years The accumulation of experience and exciting technological innovations including high definition cameras more ergonomic and precise surgical instruments as well as new hemostatic agents have enabled safer and more efficacious treatment of lesions affecting highly complex and delicate regions This fully revised and updated second edition of *Transnasal Endoscopic Skull Base and Brain Surgery* Surgical Anatomy and its Applications builds on the acclaimed first edition focusing on the correlation between endoscopic skull base anatomy and state of the art clinical applications Among these are the transplanum transtuberulum transcribriform transclival and craniocervical junction surgical approaches Renowned skull base surgeon Aldo Stamm and leading worldwide experts have compiled a comprehensive multidisciplinary textbook with 72 chapters in 14 sections didactically organized by regions and diseases Detailed descriptions of sinonasal orbital cranial base and intracranial anatomy imaging modalities and in depth surgical navigation techniques form the foundation of this remarkable book The content reflects significant knowledge and diverse perspectives from masters in neurosurgery otorhinolaryngology head and neck surgery neuroendocrinology intensive care neuro anesthesiology and other disciplines Key Highlights Chapter summaries and highlights facilitate understanding and retention of complex concepts More than 700 beautiful anatomical operative and dissection illustrations and photographs enhance understanding of impacted areas 20 accompanying videos provide guidance on endoscopic transnasal approaches in patients with diverse skull base diseases Pearls pitfalls and nuances throughout this book provide invaluable insights on achieving optimal outcomes Neurosurgeons otolaryngologists head and neck surgeons and others will greatly benefit from the step by step endoscopic procedural guidance and tips in this quintessential skull base surgical reference

*Handbook of Skull Base Surgery* Antonio Di Ieva, John Lee, Michael Cusimano, 2016-01-11 *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

## **Technological Advances in Sinus and Skull Base Surgery, An Issue of Otolaryngologic Clinics of North**

**America** Raj Sindwani, 2017-05-23 This issue of Otolaryngologic Clinics guest edited by Dr Raj Sindwani is devoted to Technological Advances in Sinus and Skull Base Surgery Articles in this outstanding issue include Evolution in Visualization for Sinus and Skull Base Surgery Organism Microbiome Analysis Techniques and Implications for CRS Topical drug therapies for CRS Absorbable Biomaterials and Nasal Packing Stents and Drug Eluting Stents in Rhinology Evolving Functionality and Applications of Microdebrider Technology Innovation in Balloon Catheter Technology Emerging Roles of Coblation in Rhinology and Skull Base Surgery Application of Ultrasonic Aspirators in Rhinology and Skull Base Surgery Next Tier Surgical Navigation Systems in Sinus and Skull Base Surgery Robotics in Sinus and Skull Base Surgery Emerging Role of 3 D Printing in Rhinology Advances in Endoscopic Skull Base Reconstruction An Evolution of Materials and Methods and Integrated Full Solution Imaging and Intelligent Informatics Surgery of the Skull Base Alexander König, Uwe Spetzger, 2017-11-03 This book discusses all aspects of skull base surgery from a neurosurgical point of view The therapeutic options in the treatment of skull base lesions are explained and a systematic overview of relevant diseases is included A strong emphasis is placed on practical aspects of skull base surgery classic surgical approaches and also methods where there has been rapid recent development such as stereotactic radiation therapy and interventional neuroradiology Several international specialists systematically describe the treatment of traumatic lesions tumors vascular lesions and developmental anomalies Surgery of the Skull Base is aimed at neurosurgeons ENT surgeons maxillofacial surgeons neurologists and radiologists *Atlas of 360 Degree Skull Base Surgery* Narayan Jayashankar, Prepageran Narayanan, 2022-05-05 This book has a comprehensive overview of pituitary tumors craniopharyngioma meningioma craniovertebral junction pathologies and chordoma This book describes the step by step description with detailed photographs More than 2000 high definition photographs to enhance the understanding of the text Detailed description of tips tricks and pitfalls to be avoided covered in this atlas Key Features Chapters on complications and their management reconstruction of skull base defects and rehabilitation A detailed table of contents Tips and Pearls are the essence of the chapters 2000 high quality images **Skull Base Surgery** M. Samii, 1994-10-19

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