Endoscopic Anatomy Of The Third Ventricle Microsurgical And Endoscopic Approaches |

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Endoscopic and Keyhole Cranial Base Surgery Part of the series sponsored by the European Association of Neurosurgical Societies. The Advances section presents fields of neurosurgery and related areas. The Technical Standards section features detailed descriptions of standard procedures to assist young neurosurgeons in their post-graduate training.

Oral and Maxillofacial Surgery - E-Book An illustrated atlas of anatomical aspects important for combinations of microsurgical and endoscopic approaches. The basis for Professor Seeger's renowned drawings has been anatomical preparations, cadaver dissections and intraoperative pictures. The correct proportions are derived by measuring the distances of anatomical landmarks of cranial preparations and from CT and MR Images. A concise text supports the understanding of the anatomical figures. Numerous common anatomical variants are demonstrated with reference to their impact for the surgical technique.

Endoscopic Sinus Surgery Imaging of the Brain provides the advanced expertise you need to overcome the toughest diagnostic challenges in neuroradiology. Combining the rich visual guidance of an atlas with the comprehensive, in-depth coverage of a definitive reference, this significant new work in the Expert Radiology series covers every aspect of brain imaging, equipping you to make optimal use of the latest diagnostic modalities.

Endoscopic and microsurgical anatomy of the upper basal cisterns The contributions in this volume, presented at the 5th International Hydrocephalus Workshop in May 2010 in Crete, Greece, give the present state-of-the-art in timely diagnosis and treatment of hydrocephalus. The topics covered include advances in management of both pediatric and adult hydrocephalus, identifying shunt responders, clinical experiences in endoscopic third ventriculostomy, clinical trials, pathophysiology, experimental studies, and the new classification for hydrocephalus.

Surgical Anatomy of the Internal Carotid Artery Learn from key leaders in the field of neurosurgery with the practical guidance presented in this first-of-its-kind resource. Complications in Neurosurgery uses a case-based format to explore complications across the full range of commonly performed neurosurgical procedures. As you review dozens of up-to-date, real-life cases, you'll become better equipped to identify pitfalls ahead of time and have the knowledge to handle difficult situations that arise during surgery. Presents commonly encountered situations provided by experienced neurosurgeons in all areas of this challenging specialty. Includes high-quality photographs, images, and dynamic videos to ensure complete visual understanding of the procedures. Uses a consistent, easy-to-read format throughout, covering a wide range of surgeries including general neurosurgery and cranial complications, as well as spinal and peripheral complications. Numerous videos depict possible complications for each type of surgery; for example, Complications of Cerebral Bypass Surgery includes videos showing how to obtain venous hemostasis without risking injury to the STA, how to manage atheroma within the donor vessel, and how to manage intraoperative occlusion of the bypass.

Endoscopic Surgery of the Orbit This is the most up-to-date reference depicting surgical anatomy, and thus fulfills an important need. It presents a step-by-step surgical approach from the anterior nasal spine to the anterior wall of the sphenoid, illustrated by brilliant colour photographs. Four critical anatomical structures are emphasised as the foundation for a precise approach to surgery of the maxillary, anterior ethmoid, frontal, and posterior ethmoid sinuses. In short, an anatomical approach which will serve the sinus surgeon at every level of experience and expertise.

Endoscopic Neurological Surgery 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 pears, 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.

Advances and Technical Standards in Neurosurgery, Vol. 31 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 anatomic-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 Endoscopic Sinus and Skull Base Surgery E-Book Endoscopic Sinus Surgery has progressed immensely in the last two decades. The interest in the subject and the desire to acquire proficiency in the surgical technique has led to enthusiastic attendance at numerous workshops. The introduction of motorized instruments, laser, image guided surgery etc., and the evolving concepts of the 'right way' to do the surgery are steps to making this procedure as functional as possible. However, the basic need of aspiring surgeons is still an accurate knowledge of the anatomy of the region, a three-dimensional concept, which will allow them to approach and clear disease from the narrow recesses of the nose and the paranasal sinuses, and restore function to near normal. In this respect, this book, with its methodical approach and excellent illustrations, will be of immense value to all aspiring and established sinus surgeons.

Recent Progress in the Management of Cerebrovascular Diseases This two-volume book offers a comprehensive guide to anesthetic management and critical care management in neurosurgical and neurological patients. This first volume focuses on neuroanesthesia. The book begins with basic information on neuroanesthesia, extensively discussing the anatomy of the brain and spine, physiology and relevant pharmacology. Special considerations for pregnant, pediatric and geriatric patients are covered in separate chapters. Each neurosurgical condition is discussed in a standard format relevant for neurosurgical patients, and each chapter, prepared by experts in the field, includes ample illustrations and flowcharts. Information is also provided on the latest evidence-based approaches, robotic surgery and gene therapy. The book offers a valuable resource for all residents, fellows and trainees in the fields of neuroanesthesia and anesthesia; it will also benefit practitioners and consultants.

Intracranial Endoscopic Neurosurgery As in the acclaimed prior editions, Endoscopic Sinus Surgery, Fourth Edition focuses strictly on anatomy, 3D reconstruction, and step-by-step surgical techniques. Written by Peter-John Wormald, the richly illustrated text details anatomy and operative treatment of sinonasal conditions such as nasal polyposis, chronic rhinosinusitis (CRS), Sjösterman's triad, eosinophilic mucous CRS, exophthalmos, acute orbital hemorrhage, orbital subperiosteal abscess, and a wide array of tumors. The fourth edition reflects simplified anatomical nomenclature published in 2016 by Wormald et al, including reclassification of cells in the frontal recess and the extent of surgery of frontal sinus surgery (EFS). This enables clearer understanding of impacted anatomy, most notably the frontal sinus drainage pathways. New and revised evidence-based procedures include the mega-antrostomy and pre-lacrimal approach to the maxillary sinus and use of anterior based pedicled flaps for frontal drillout. Refinements in other surgical techniques include endoscopic medial maxillectomy and resection of sinonasal neoplasms. Anatomy and surgical approaches elucidated through 1,000 images including CTs, illustrations, and diagrams Exquisite dissections by Rowan Valentine, who worked in the anatomy laboratory of the late Albert L. Rhoton Jr., internationally renowned author, educator, brain anatomist, and neurosurgeon. Delineation of variations in frontal recess anatomy and difficult regions adjacent to the sinuses provides important surgical guidance. Seventy operative videos detail potential anatomical variations seen in the frontal sinuses, ancillary procedures such as DCR, orbital decompression, CSF leak closure, and skull base surgical approaches. This classic reference is a must-have for otolaryngologist-head and neck surgeons, as well as residents and fellows seeking a robust foundation on the latest endoscopic sinus surgery (FESS) techniques. It enables 3D understanding of diseased anatomy, associated surgical treatment decision making, and safer surgery.

Textbook of Neuroanesthesia and Neurocritical Care Written and edited by a world-renowned anesthetist, this exquisitely illustrated reference consolidates surgical, anatomical and technical knowledge for the entire human body in a single volume. Part of the highly respected Gray's 'family,' this new resource brings to life the applied anatomical knowledge that is critically important in the operating room, with a high level of detail to ensure safe and effective surgical practice. Gray's Surgical Anatomy is unique in the field: effectively a textbook of regional anatomy, a dissection manual, and an atlas of operative procedures – making it an invaluable resource for surgeons and surgical trainees at all levels of experience, as well as students, radiologists, and anatomists. Brings you expert content written by surgeons for surgeons, with all anatomical detail quality assured by Lead Co-Editor and Gray's Anatomy Editor-in-Chief, Professor Susan Standring. Features superb colour photographs from the operating room, accompanied by detailed explanatory artwork and figures from the latest imaging modalities - plus summary tables, self-assessment questions, and case-based scenarios – making it an ideal reference and learning package for surgeons at all levels. Reflects contemporary practice with chapters logically organized by anatomical region, designed for relevance to surgeons across a wide range of subspecialties, practice types, and clinical settings – and aligned to the requirements of current trainee curricula. Maximizes day-to-day practical application with references to core surgical procedures throughout, as well as the 'Tips and Anatomical Hazards' from leading international surgeons. Demonstrates key anatomical features and relationships that are essential for safe surgical practice - using brand-new illustrations, supplemented by carefully selected contemporary artwork from the most recent edition of Gray's Anatomy and other leading publications. Integrates essential anatomy for robotic and minimal access approaches, including laparoscopic and endoscopic techniques. Features dedicated chapters describing anatomy of lumbar puncture, epidural anaesthesia, peripheral nerve blocks, echocardiographic anatomy of the heart, and endoscopic anatomy of the gastrointestinal tract – as well as a unique overview of human factors and minimizing error in the operating room, essential non-technical skills for improving patient outcomes and safety.

Applied Head and Neck Anatomy for the Facial Cosmetic Surgeon It is only recently that the use of the endoscope as the sole visualizing tool has been introduced in transsphenoidal pituitary surgery with its favorable related implications and minimal operative trauma. Of course, microscopic and endoscopic and cosmetic anatomy are basically the same, but the optical distortion of endoscopic images is quite substantial compared to microscopic depictions. An endoscope lens produces images with maximal magnification at its center and severe contraction at its periphery. Nearer images are disproportionally enlarged and remote images are falsely miniaturized. This optical illusion may disorientate a surgeon who is not familiar with this peculiar condition at the skull base. This atlas acts as a guide through the endoscopic anatomy and gives detailed descriptions of the preoperative management and the surgical procedures.

Transendoscopic Ultrasound for Neurosurgery This multi-authored, multi-institutional, and multi-specialty based text is designed to inform and refresh practitioners who perform facial cosmetic surgery. Divided into three distinct sections for ease of use, the first section focuses exclusively on localized anesthesia for each region of the head and neck. Chapters focus on the techniques that best affect these regions with a chapter closing the first section, on managing potential anesthetic complications. The second section covers the regional anatomy of the face by offering high definition photos of cadaver dissections and anatomical illustrations to highlight pertinent muscle and bone structures. The third and final section combines the skills detailed in the first two sections and applies them to a variety of surgical, cosmetic procedures. In an era of high demand for aesthetic procedures, this text provides a practical and comprehensive look at facial cosmetic surgery to ensure practitioners have the best information available for treating their patients. The editors have extensive academic experience and have authored multiple scientific publications, while the contributions included in the text have been written by experts and leaders in the field. Applied Head and Neck Anatomy for the Facial Cosmetic Surgeon is written for a multi-disciplinary audience including oral & maxillofacial surgeons, plastic surgeons, otolaryngologists, cosmetic surgeons, and dentists.

Mader's Reptile and Amphibian Medicine and Surgery - E-Book In one book, the practitioner can obtain a solid foundation in the field of endoscopy as practiced by neurosurgeons. Included is a review of the physics and instrumentation of neuroendoscopic systems, comprehensive coverage of the anatomy upon which neuroendoscopic procedures are performed, and illustrations and text describing how endoscopic surgery can be used as an alternative to traditional
surgery for such complex procedures as hematoma evacuation, abscess, and third ventriculocisternostomies. Avoiding and managing frequently encountered complications are thoroughly discussed. Intracranial Endoscopic Neurosurgery contains: The physics of neuroendoscopic systems and the instrumentation Neuroendoscopes and instruments Access to the ventricular system Anatomy for neurosurgical endoscopic procedures The use of endoscopes for shunt placement Third ventriculostomy Neuroendoscopic treatment of arachnoid cysts Endoscopic removal of colloid cysts Endoscopic management of complex hydrocephalus Endoscopy-Assisted craniotomy and microsurgery Endoscopic transphenoidal resection of stellar lesions (Distributed by Thieme for the American Association of Neurological Surgeons)

Bergman's Comprehensive Encyclopedia of Human Anatomic Variation This book has included 19 recent topics about the treatment of cerebrovascular diseases from basics to surgical (include microneurosurgical, endovascular, endoscopic and Stereotactic radiosurgical techniques) aspects in the management of cerebrovascular diseases. With illustrative cases, the treatment strategies, techniques and complication avoidance have been covered extensively in the chapters to guide the readers on when and what to expect the worst in surgeries. The neurosurgical aspect in the present scenario of COVID is also included. This book will assist the junior neurosurgeons and junior neurological physicians in endeavoring to learn the core concepts and common problems of cerebrovascular surgery. This is a worthwhile addition in this ever growing field of cerebrovascular surgery.

Cumulated Index Medicus A compact, readable and highly-authoritative source of critical neurosurgical information, Neurosurgery has been produced with the participation of some of the world's leading neurosurgeons and neuroclinicians and is based on the curriculum of British, European and North American neurosurgical training programs. The book is extensively illustrated with hundreds of figures demonstrating the imaging features of all major neurosurgical pathologies, including diagrams explaining anatomical and surgical concepts, and images showing the features of common brain tumours. There are key references at the end of each chapter and critical commentary of neurosurgical literature is also included. The handbook concisely covers all aspects of adult and paediatric neurosurgery. It is systematically and clearly broken down into easy-to-follow sections such as introductory basic concepts, definitions, epidemiology, pathology, clinical and neuroradiological characteristics, clinical management and decision making. Additional sections on operative treatment include the key critical surgical anatomy, and clear, step-by-step descriptions of common surgical techniques. Widely accepted practice guidelines, major classification schemes and common scales are clearly presented and explained.

Hydrocephalus Known as "the bible" of herpetological medicine and surgery, Mader's Reptile and Amphibian Medicine and Surgery, 3rd Edition edited by Stephen Divers and Scott Stahl provides a complete veterinary reference for reptiles and amphibians, including specific sections on practice management and development; taxonomy, anatomy, physiology, behavior, stress and welfare; captive husbandry and management including nutrition, heating and lighting; infectious diseases and laboratory sciences; clinical techniques and procedures; sedation, anesthesia and analgesia; diagnostic imaging; endoscopy; medicine; surgery; therapy; differential diagnoses by clinical signs; specific disease/condition summaries; population health and public health; and legal topics. Well-organized and concise, this new edition covers just about everything related to reptiles and amphibians by utilizing an international array of contributing authors that were selected based on their recognized specialization and expertise, bringing a truly global perspective to this essential text!

Hydrocephalus

Pediatric Epilepsy Surgery Neuroendoscopy is a minimally-invasive surgical procedure whereby a neurosurgeon removes a tumour or cyst through small holes in the skull or through the mouth or nose. Neuroendoscopy enables neurosurgeons to access areas of the brain that cannot be reached by traditional surgery. This book is a guide to endoscopic neurological surgery procedures for neurosurgeons. Divided into sixteen sections, the text begins with an overview of the history of neuroendoscopy, endoscopic ventricular anatomy, endoscopes and instrumentation, and approaches to the ventricular system. The following chapters cover surgical techniques for different conditions. Each topic is divided into two parts with a current literature review and a "how to" section detailing the technique as a step by step process. The book concludes with discussion on risks and complications. Authored by a recognised, Texas-based expert in the field, the comprehensive text is further enhanced by clinical and surgical photographs and illustrations. Key points Comprehensive guide to endoscopic neurological surgery techniques Topics provide "how to" guidance on the procedure and current literature reviews Authored by internationally recognised expert in the field Highly illustrated with clinical and surgical photographs

Atlas of Endoscopic Anatomy for Endonasal Intracranial Surgery This trusted, three-volume resource covers the full scope of oral and maxillofacial surgery with up-to-date, evidence-based coverage of surgical procedures performed today. NEW! Full color design provides a more vivid depiction of pathologies, concepts, and procedures. NEW! Expert Consult website includes all of the chapters from the print text plus "classic" online-only chapters and an expanded image collection, references linked to PubMed, and periodic content updates. NEW! Thoroughly revised and reorganized content reflects current information and advances in OMS. NEW! New chapters on implants and orthognathic surgery cover the two areas where oral and maxillofacial surgeons have been expanding their practice. NEW! Digital formats are offered in addition to the traditional print text and provide on-the-go access via mobile tablets and smart phones.

Imaging of the Brain 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 sphenoethmoidectomy to extended frontal sinus procedures, endoscopic craniofacial resections and complex skull base reconstructions. Clearly conveys the anatomy and detailed steps of each procedure, 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.

Endoscopic Sinus Surgery This book describes in practical terms the endoscopic neurosurgery of the third ventricle and surrounding structures, emphasizing aspects of intraoperative endoscopic anatomy and ventricular approaches for main diseases, complemented by CT / MRI images. It is divided in two parts: Part I describes the evolution of the description of the ventricular system and traditional ventricular anatomy, besides the endoscopic neurosurgery evolution and current concepts, with images and schematic drawings, while Part II presents a collection of intraoperative images of endoscopic procedures, focusing in anatomy and main pathologies, complemented by schemes of the surgical approaches and CT / MRI images. The Atlas of Endoscopic Neurosurgery of the Third Ventricle offers a revealing guide to the subject, addressing the needs of medical students, neuroscientists, neurologists and especially neurosurgeons.
Endoscopic Third Ventriculostomy As a result of technological improvements, neuroendoscopy is now used in the treatment of many more patients, enabling the performance of previously unavailable operations with low complication rates and rapid patient recovery. This book presents the distilled experience of world experts in this evolving field. Current applications in a wide variety of settings are explained in detail and likely future developments are identified. In addition, the available neuroendoscopic instruments are reviewed and the results of international trials and collaborative studies, presented. This book will fully acquaint the reader with the breadth and depth of available neuroendoscopy techniques and their impressive therapeutic potential. It should serve as the reference book on neuroendoscopy for the next 10 years.

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

Key Concepts in MIN - Intracerebral Hemorrhage Evacuation In the last ten years the pediatric neurosurgeon has witnessed a real revolution in the diagnosis and treatment of pediatric hydrocephalus, the most frequently encountered condition in everyday clinical practice. The evolution of MRI and the advent of neuroendoscopic surgery have resuscitated the interest in the classification, etiology and pathophysiology of hydrocephalus. The book offers an updated overview on the recent progress in this field, and a new approach to hydrocephalus: the reader will find in it a modern and new presentation of an old disease, where genetics, endoscopy, cost-effectiveness analyses and many other aspects of the various therapies are extensively discussed. The volume will be useful not only for neurosurgeons, but for all specialists interested in the various aspects of hydrocephalus: pediatricians, radiologists, endocrinologists, pathologists and geneticists.

Atlas of Endoscopic Neurosurgery of the Third Ventricle The development and refinement of neuroendoscopy has been driven by the persistent desire of neurosurgeons to advance the field and offer less invasive, more efficacious options to patients. This remarkable multimedia book reflects the technological advances achieved in the last two decades in fiber optics, cold light, cameras, and endoscopic instrumentation. Written by an impressive Whos Who of international neurosurgeons, the outstanding text and videos reflect global contributions to neuroendoscopy. Current indications for intracranial and intraventricular endoscopy are described in depth, through detailed chapters, stellar videos, professional animations, and exquisite illustrations. The authors share their clinical expertise on procedures ranging from endoscopic third ventriculostomy to transventricular approach of the fourth ventricle. Cover to cover, this book details the differences, advantages, disadvantages, and limitations of the flexible neuroendoscope. This hands-on learning tool will enable neurosurgeons to perform endoscopy of the ventricles and basal cisterns for exploratory purposes and conditions such as hydrocephalus, congenital aqueductal stenosis, tumors, hypotalamic hamartoma, arachnoid cysts, and neurocysticercosis. Additional topics include endoscopic-assisted microvascular decompression and aneurysm surgery, fluorescence, complications, anesthesia, utilization in developing countries, and future trends. Key Features: Comprehensive multimedia reference with online access to 70 superb videos and animations More than 300 meticulously drawn illustrations Beautifully illustrated anatomical chapters that facilitate in-depth understanding of endoscopic anatomy An entire chapter devoted to flexible neuroendoscopy Indications, preoperative preparation, procedure description, intraoperative complications and their management ("risk and rescue" techniques), expert pearls, postoperative management, and outcomes This volume is a must-have resource for neurosurgeons and neurology residents, neurosurgeons, pediatric neurosurgeons, and all physicians involved in the care of patients with intracranial and intraventricular neurosurgery.

Atlas of Endoscopic Neurosurgery of the Third Ventricle The new technique is explained in a simple language in detail. Furthermore, Resch provides a guide to the necessary equipment 50 typical neurosurgical indications are presented comparing both real anatomical endoscopic pictures of the lesion and its immediate environment to endosonographic images of the same Includes chapter on the outlook and future concepts on minimally invasive neurosurgery.

Endoscopic Anatomy of the Third Ventricle Hydrocephalus is a common manifestation of many diseases. Caring and treating a patient with hydrocephalus involve engagement and acquire a deep knowledge of anatomy, physiology, and technical details. Despite the technological developments, treatment of hydrocephalus is still a challenge for every neurological surgeon. The aim of this project is to provide a detailed and accessible information for every single discipline, not only for neurological surgeons, involved in the diagnosis and treatment of the patients with hydrocephalus.

Pneum booze H骄傲 For the second edition: The book is beautifully and clearly illustrated, providing a comprehensive and clear approach of value to both the novice and experienced surgeon and would be of great interest to anyone working in this area. Valerie J. Lund, Rhinology, 46, 250, 2008 This updated and expanded third edition of Endoscopic Sinus Surgery provides detailed, step-by-step instructions on how to perform state-of-the-art surgical techniques on the paranasal sinuses and skull base. It extensively describes the anatomy of all regions within the sinuses and adjacent intracranial cavities and includes unique, practical guidance on using CT scans to reconstruct 3D images of surgical anatomy. Access to more than 40 videos, available on Thiemes MediaCenter and illustrating the anatomy and surgical steps for all procedures, is provided via a scratch-off page in the book. Features of the third edition: Three entirely new chapters on anatomy of the sphenoid, surgery of the cranioventricular junction, and management of carotid artery and other major vessel injury More than 150 new high-quality dissection photos help clarify complex techniques throughout the book Online access to more than 40 operative videos demonstrating surgical techniques This operative manual is an essential resource for otolaryngologists and skull base surgeons who need a refresher on a surgical procedure as well as residents and fellows seeking guidance on the latest endoscopic techniques for the sinuses and skull base.

Neuroendoscopic Surgery This is the first of four volumes that together elaborate on an advanced minimally invasive neurosurgery (MIN) technique for cerebral herniations, which makes it possible to prevent secondary injury by the hematoma and to preserve neurological function and accelerate neuropsychological recovery after the evacuation. It describes in detail the theoretical, technical and training procedures necessary to carry out successful intracerebral hemorrhage evacuations using MIN techniques. A combination of mouth-tracked microsurgery, neuro-sonography, neuro-endoscopy, LASER and sealing makes highly effective, minimally invasive evacuation of all types of hematomas possible. The MIN Key Concept, an advanced new model based on the Keyhole Concept and MIN techniques is also presented. Lastly, the scientific basics of MIN are discussed and summarized. A historical curriculum vitae is included in memory of the main pioneer of innovative MIN techniques, Prof. Axel Pernecky, to whom this book is dedicated.

Anatomical Principles of Endoscopic Sinus Surgery Now thoroughly up-to-date, Clinical Gastrointestinal Endoscopy, 3rd Edition, by Drs. Viny Chandrasekhar, Monen Khashab, B. Joseph Elmunzer, and V. Raman Mathusamy, ensures that you stay current with the latest technology and techniques in GI endoscopy. An all-new editorial team, newly updated images, and a reorganized format make this reference an easy-to-use source of reliable information on a full range of topics, including anatomy, pathophysiology, and therapeutic management options, in addition to the latest GI procedures and technologies. Features 1,000 revised photographs, endoscopic images, and anatomical drawings.
Provides a fresh perspective and expert guidance from an entirely new editorial team. Presenters material in a newly restructured, organ-based format for quick reference.

Neuroendoscopy Endoscopic third ventriculostomy is the most widely performed neuroendoscopic procedure around the world. Several scientific papers appear in the scientific literature every month, with an increasing number, given the great interest neuroendoscopy has aroused as well as controversies about certain aspects of endoscopic third ventriculostomy. With this reasoning, the goal of this book is to be a reference in the revision of classic concepts and scientifically proven aspects about the indications and techniques of endoscopic third ventriculostomy, as well as new neuroendoscopic tendencies. The book is structured in 2 parts and into 7 chapters. Part I – Classic Concepts – comprises the first 2 chapters, covering general aspects of neuroendoscopy such as historical notes, endoscopic anatomy and ventricular system physiology. Part II – State-of-the-Art – comprises chapters 3 to 7. From chapters 3 to 6 the book will discuss general principles of endoscopic ventricular technique and the applications of endoscopic third ventriculostomy in different age groups, and its association to choroid plexus coagulation. Chapter 7 deals with alternative ways of communicating the ventricular system with the cisterns of the subarachnoid space. All chapters are richly illustrated with high resolution images; there are links to online access to demonstrative surgical videos. Designed for neurosurgeons at every level, the book will be unique in the market, as there is no similar book in the current scientific literature that specifically discusses endoscopic third ventriculostomy in its broadest sense.

Textbooks of Operative Neurosurgery ( 2 Vol.) Building on the strength of the previous two editions, Bergman's Comprehensive Encyclopedia of Human Anatomical Variation is the third installment of the classic human anatomical reference launched by Dr. Ronald Bergman. With both new and updated entries, and now illustrated in full color, the encyclopedia provides an even more comprehensive reference on human variation for anatomists, anthropologists, physicians, surgeons, medical personnel, and all students of anatomy. Developed by a team of editors with extensive records publishing on both human variation and normal human anatomy, Bergman's Comprehensive Encyclopedia of Human Anatomical Variation is the long awaited update to this classic reference.

Endoscopic Sinus Surgery Describes & demonstrates the topographic anatomy of the central nervous system from the endoscopic viewpoint. The basic approach is to present the 3-D aspect of each region, & thus aid the planning of neuroendoscopic procedures, as well as microsurgical operations. The three parts cover the endoscopic anatomy of the intracranial subarachnoid space, of the ventricle system, & of the spinal subarachnoid space. In each part the regions are demonstrated by endoscopic dissections. Each region is approached from different directions to demonstrate the 3-D aspect & also the changing optic image of each structure under the use of various preparation angles. The figures show in a step-by-step approach how a region can be evaluated anatomically.

Clinical Gastrointestinal Endoscopy E-Book This detailed atlas illustrates the anatomical structures of the upper basal cisterns, their topography and relationship to other intra- and extradural structures. The author expands his well-established efforts to convey his outstanding neuroanatomical knowledge to the basal cisterns. His famous anatomical drawings in this book are based upon anatomical preparations, cadaver dissections and intraoperative pictures, in order to point out important aspects concerning microsurgical and endoscopic approaches to these parts of the brain.

Endoscopic Anatomy for Neurosurgeon Winner of the prestigious First Prize in ENT in 2005 from the British Medical Association (first edition)The second edition of this operative manual provides expanded coverage of the complex anatomy and the current surgical approaches to the paranasal sinuses and skull base. It provides practical, step-by-step instruction on using CT scans to reconstruct three-dimensional images of surgical anatomy, enabling the surgeon to develop detailed surgical plans for each case in the following way. The accompanying DVD is greatly expanded from the first edition's CD-ROM, with 30 additional operative videos plus new problem-based exercises. The operative videos enable experienced surgeons to visualize the surgical concepts described and illustrated in the text. Case exercises provide the opportunity to apply knowledge learned to perform three-dimensional reconstructions—a valuable tool for self-assessment.Highlights of the second edition: Extensive presentation of all the anatomical variations and surgical approaches to the sinuses, paranasus regions, and posterior, middle, and anterior cranial fosse Straightforward outlines for approaching the frontal sinus and frontal recess, maxillary sinus trephination, dacryocystorhinostomy surgery, cerebrospinal fluid leak closure, orbital and optic nerve decompression, and Vidian neurectomy 830 diagrams, illustrations, and images demonstrating anatomy and surgical techniquesDetailed coverage of endoscopic surgical approaches to tumors of the sinuses and in the intracranial cavity Discussion of the value and importance of axial CT for determining drainage pathways Essential for ENT surgeons, otolaryngologists, and residents, the book equips readers with all the information necessary for handling the range of anatomical variations that may be encountered and selecting the best approach for each.

Endoscopic Anatomy of the Paranasal Sinuses This book describes in practical terms the endoscopic neurosurgery of the third ventricle and surrounding structures, emphasizing aspects of intraoperative endoscopic anatomy and endoscopic approaches for many diseases, complemented by CT / MRI images. It is divided in two parts: Part I describes the evolution of the description of the ventricular system and traditional ventricular anatomy, besides the endoscopic neurosurgery evolution and current concepts, with images and schematic drawings, while Part II presents a collection of intraoperative images of endoscopic procedures, focusing in anatomy and main pathologies, complemented by schemes of the surgical approaches and CT / MRI images. The Atlas of Endoscopic Neurosurgery of the Third Ventricle offers a revealing guide to the subject, addressing the needs of medical students, neuroscientists, neurologists and especially neurosurgeons.

Complications in Neurosurgery E-Book The use of endoscopic orbital surgery is rapidly expanding in modern day rhinology and oculoplastic practice. In the past two decades, endoscopic techniques have been adapted for lacrimal and orbital surgery. Significant advances have been made in endoscopic endonasal and periorbital approaches to the orbital apex and skull base, especially in the last 3 years. There has been no book dedicated to these recent surgical innovations until Endoscopic Surgery of the Orbit: Anatomy, Pathology, and Management by Benjamin Bleier, Suzanne Freitag, and Raymond Sacks filled this void. This landmark text and its accompanying videos bring together the global experience of thought leaders and pioneers with multidisciplinary backgrounds. The collective expertise shared throughout 20 chapters codifies the current state of endoscopic orbital surgery and sets the stage for future developments. The opening chapters cover anatomy, physiology, and radiologic aspects pertaining to the orbit, paranasal sinuses, and surrounding structures. Subsequent chapters detail evaluation and endoscopic management of a full spectrum of pathologies utilizing orbital and optic nerve decompression, reconstruction, transorbital approaches, and anesthetic techniques. Key Features State-of-the-art evidence-based medicine including the pros and cons of different treatment approaches Management of operative complications such as sinusitis and iatrogenic intraorbital injury, and postoperative complications Pathology-specific topics including congenital and acquired lacrimal obstruction, thyroid-related eye disease, trauma, orbital neoplasms, and skull-base neoplasms with orbital involvement 138 original illustrations help elucidate complex anatomy High definition, narrated surgical videos delineate specific surgical techniques This is a must-have resource for otolaryngologists in rhinologic and general practice and ophthalmologists in general and oculoplastic practice. It will also benefit neurosurgeons and plastic & reconstructive surgeons. The comprehensive text, clinical pearls, and accompanying videos facilitate incorporating these techniques into practice, whether one is a surgical trainee or veteran practitioner.