planum sphenoidale anatomy

planum sphenoidale anatomy is a critical area in the study of cranial anatomy that plays a significant role in neuroanatomy and various medical fields, including neurosurgery and radiology. This article delves into the intricate details of the planum sphenoidale, exploring its anatomical features, clinical significance, and related structures. Understanding the anatomy of the planum sphenoidale is essential for medical professionals, especially when addressing conditions affecting the sphenoid bone and surrounding areas. We will cover its location, relationships with adjacent structures, variations, and implications in surgical procedures. Additionally, we will provide insights into common pathologies associated with this region. This comprehensive overview aims to enhance your understanding of planum sphenoidale anatomy.

Introduction to Planum Sphenoidale

The planum sphenoidale is a flat, horizontal area located on the superior aspect of the sphenoid bone, forming a crucial component of the skull base. It is situated anterior to the sella turcica and posterior to the ethmoid bone, playing an essential role in the overall cranial structure. This region serves as a foundational platform for various neurovascular structures and is vital in maintaining the integrity of the cranial cavity. Understanding the planum sphenoidale anatomy is crucial for diagnosing and managing conditions that may affect this region.

Location and Structure

The planum sphenoidale is found at the anterior part of the sphenoid bone, which is one of the key bones of the skull. It comprises the following anatomical features:

Dimensions and Shape

The planum sphenoidale is typically described as a thin, flat surface. Its dimensions can vary among individuals, but it generally measures around 2-3 cm in width and approximately 1 cm in height. The overall shape is rectangular, extending laterally towards the greater wings of the sphenoid bone.

Bone Composition

This area of the sphenoid bone is primarily composed of cortical bone, which is dense and provides structural support. The internal architecture may include trabecular bone, which adds to the strength and resilience of the region. The planum sphenoidale is also covered by dura mater, a protective layer essential for safeguarding the underlying structures.

Adjacent Structures

Understanding the adjacent structures surrounding the planum sphenoidale is vital for comprehending its clinical implications. The planum sphenoidale interacts with several important anatomical features:

Ethmoid Bone

Anteriorly, the planum sphenoidale is bordered by the ethmoid bone, which contributes to the formation of the nasal cavity and the orbits. The cribriform plate of the ethmoid is located just anterior to the planum and is crucial for olfactory nerve passage.

Sella Turcica

Posteriorly, the planum sphenoidale is adjacent to the sella turcica, a depression in the sphenoid bone that houses the pituitary gland. This proximity is significant for surgical interventions involving the pituitary gland, as any manipulation in this area can affect both the gland and surrounding structures.

Optic Canals

Laterally, the optic canals, which transmit the optic nerves, are located in close proximity to the planum sphenoidale. Knowledge of this relationship is crucial in neurosurgical procedures, particularly those addressing tumors or lesions in the sellar region.

Clinical Significance

The planum sphenoidale has considerable clinical relevance due to its involvement in various medical conditions and surgical procedures. Its anatomical positioning makes it susceptible to trauma and pathology, necessitating a thorough understanding of its anatomy for effective diagnosis and treatment.

Surgical Considerations

In neurosurgical practice, procedures such as transsphenoidal surgery, which is performed to access the pituitary gland, often require careful navigation around the planum sphenoidale. Surgeons must be acutely aware of the anatomical relationships to avoid complications, such as damage to the optic nerves or the cavernous sinus.

Radiological Assessment

Imaging modalities such as MRI and CT scans are essential for assessing the planum sphenoidale. Abnormalities in this region, such as tumors or cysts, can significantly impact clinical management. Radiologists must possess a comprehensive understanding of the normal anatomy to identify pathological changes accurately.

Variations in Anatomy

Individual anatomical variations of the planum sphenoidale can influence both clinical and surgical outcomes. These variations may include:

- Differences in size and shape of the planum sphenoidale.
- Variations in the thickness of the bone, which can affect surgical approaches.
- Presence of anatomical anomalies, such as ossification or additional bony projections.

Awareness of these variations is essential for healthcare professionals to tailor their approaches and minimize risks during interventions.

Pathologies Associated with the Planum Sphenoidale

The planum sphenoidale can be involved in various pathological conditions that may require clinical attention. Some of the common pathologies include:

Chordomas

Chordomas are rare tumors that can occur in the midline of the skull base, including the region of the planum sphenoidale. These tumors arise from remnants of notochordal tissue and can lead to significant neurological deficits due to their aggressive nature and tendency to invade surrounding structures.

Menigiomas

Menigiomas can also arise from the dura mater covering the planum sphenoidale. These tumors may cause symptoms related to increased intracranial pressure or local neurological deficits based on their size and growth pattern.

Trauma

Fractures involving the sphenoid bone can compromise the integrity of the planum sphenoidale, potentially leading to cerebrospinal fluid leaks or damage to adjacent neurovascular structures. Prompt recognition and management of such injuries are crucial to prevent complications.

Conclusion

In summary, the planum sphenoidale anatomy is a vital area of study for medical professionals, particularly those involved in neurosurgery and radiology. Its anatomical relationships with adjacent structures, clinical significance, and potential pathologies underscore the importance of a thorough

understanding of this region. Knowledge of variations and surgical implications is essential for effective diagnosis and treatment of conditions affecting the planum sphenoidale. Continued research and advancements in imaging techniques will further enhance our understanding and management of this critical area of cranial anatomy.

FAQs

Q: What is the planum sphenoidale?

A: The planum sphenoidale is a flat area on the superior aspect of the sphenoid bone, located anterior to the sella turcica and posterior to the ethmoid bone. It plays a significant role in cranial anatomy and neuroanatomy.

Q: Why is the anatomy of the planum sphenoidale important?

A: Understanding the anatomy of the planum sphenoidale is crucial for neurosurgeons and radiologists as it relates to surgical interventions, diagnosis of pathologies, and the relationships with critical neurovascular structures.

Q: What are common pathologies associated with the planum sphenoidale?

A: Common pathologies include chordomas, meningiomas, and trauma-related injuries, which can affect the integrity of the planum and surrounding structures.

Q: How does the planum sphenoidale relate to the pituitary gland?

A: The planum sphenoidale is located just anterior to the sella turcica, which houses the pituitary gland. This proximity is crucial in surgical approaches to the pituitary gland.

Q: What imaging techniques are used to assess the planum sphenoidale?

A: MRI and CT scans are commonly used to evaluate the planum sphenoidale for abnormalities, such as tumors or fractures, providing essential information for clinical management.

Q: Are there variations in the anatomy of the planum sphenoidale?

A: Yes, variations in size, shape, and thickness of the planum sphenoidale exist among individuals, which can influence surgical approaches and outcomes.

Q: What surgical procedures involve the planum sphenoidale?

A: Transsphenoidal surgery for accessing the pituitary gland is a key procedure that involves navigating around the planum sphenoidale.

Q: Can trauma affect the planum sphenoidale?

A: Yes, trauma can lead to fractures of the sphenoid bone, which may compromise the planum sphenoidale and result in complications such as cerebrospinal fluid leaks.

Q: How does the planum sphenoidale interact with the optic nerves?

A: The optic canals, which transmit the optic nerves, are located laterally to the planum sphenoidale, making their relationship critical in surgical procedures involving this region.

Q: What is the role of the planum sphenoidale in neurosurgery?

A: The planum sphenoidale serves as a landmark in neurosurgery, particularly in procedures targeting the pituitary gland, necessitating careful consideration of its anatomy to avoid complications.

Planum Sphenoidale Anatomy

planum sphenoidale anatomy: Meningiomas Joung H. Lee, 2008-12-11 Joung H. Lee has assembled a masterful volume on the diagnosis, treatment, and outcome of meningiomas. It is complete in that it covers all aspects of this tumor; every location is discussed by acknowledged experts and every technique is described in detail. Basic biology forms an important and up-to-date part of the text. This book will serve as a reference for many years; in particular, Dr. Lee feels surgeons and future patients will benefit. There is little question that these aims will be fulfilled in this important tour de force. John A. Jane, Sr. , MD, PhD Charlottesville, VA, USA vii Preface In planning this book, I had three major goals. The first was to compile and disseminate all the advances and new information relating to meningiomas which became available in the last 15-20 years. In this time frame, there has been a significant increase in our understanding in regards to the meningioma pathologic classification, the natural history and basic science. Dramatic technological advancements have also been made in diagnostic and interventional radiology as well as in surgical and radiation treatments for meningiomas, such as incorporation of the following in the treatment armamentaria: endoscopy, various skull base techniques, computer-assisted surgery and radiosurgery. Additionally, new information regarding surgical outcome and patient selection for surgery are becoming available, all of which are resulting in a significant change in how neurosurgeons treat patients with meningiomas. The second goal for this book was to teach and stimulate the next generation of neurosurgeons.

planum sphenoidale anatomy: ,

planum sphenoidale anatomy: Diagnostic Imaging: Oral and Maxillofacial E-Book Lisa J. Koenig, Dania Tamimi, Susanne E. Perschbacher, Husniye Demirturk, 2023-11-21 Bridging the gap between dentistry and medical radiology, the third edition of Diagnostic Imaging: Oral and Maxillofacial, is an invaluable resource for anyone who requires an easily accessible, highly visual

reference in this complex area of imaging, from new and seasoned radiologists to dental specialists and general practitioners currently using CT and/or cone beam CT (CBCT). Drs. Lisa J. Koenig, Dania Tamimi, Susanne E. Perschbacher, and Husniye Demirturk, building upon contributions from a diverse legacy authoring team of oral and maxillofacial and medical radiologists, provide up-to-date information on the oral and maxillofacial complex from a dentist's perspective to help you make informed decisions at the point of care. The text is lavishly illustrated, delineated, and referenced, making it a useful learning tool for readers at all levels of experience as well as a handy reference for daily practice. - Covers the anatomic zones, imaging modalities, patient conditions, and presenting clinical signs and symptoms shared by dentistry and medicine - Incorporates complete and accurate dental anatomy and nomenclature throughout as well as findings that affect the many aspects of dental treatment - Includes sweeping updates throughout, such as a new chapter on the expanded use of artificial intelligence (AI) in oral radiology, a new chapter on ultrasound use for maxillofacial lesions, and new chapters on CBCT applications in implant planning, endodontics, orthodontics, and analysis of sleep-disordered breathing risks - Features more than 4,800 print and online images, including CT and CBCT images, radiographs, ultrasound images, full-color illustrations, MR images, 3D reconstruction images, videos and clinical photographs - Includes 200+ diagnoses in chapters organized by anatomic section, with extensive coverage of TMJ disorders - Features more than 35 differential diagnosis chapters that provide a unique and intuitive method for interpreting pathology according to radiographic appearance - Contains comprehensive details on the anatomy of oral and maxillofacial areas, including embryology of the teeth to carotid arteries - Uses bulleted, succinct text and highly templated chapters for quick comprehension of essential information at the point of care - Serves as an excellent review for the American Board of Oral and Maxillofacial Radiology exam - Any additional digital ancillary content may publish up to 6 weeks following the publication date

planum sphenoidale anatomy: Radiology of The Sella Turcica J. F. Bonneville, J. L. Dietemann, 2012-12-06 With a Historical Review

planum sphenoidale anatomy: Magnetic Resonance Tomography Maximilian F Reiser, Wolfhard Semmler, Hedvig Hricak, 2007-12-05 With an incredible 2400 illustrations, and written by a multitude of international experts, this book provides a comprehensive overview of both the physics and the clinical applications of MRI, including practical guidelines for imaging. The authors define the importance of MRI in the diagnosis of several disease groups in comparison or combination with other methods. Chapters dealing with basic principles of MRI, MR spectroscopy (MRS), interventional MRI and functional MRI (fMRI) illustrate the broad range of applications for MRI. Both standard and cutting-edge applications of MRI are included. Material on molecular imaging and nanotechnology give glimpses into the future of the field.

planum sphenoidale anatomy: *Gray's Surgical Anatomy E-Book* Peter A. Brennan, Susan Standring, Sam Wiseman, 2019-11-05 Written and edited by expert surgeons in collaboration with a world-renowned anatomist, 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.

planum sphenoidale anatomy: *Skull Base Imaging, An Issue of Radiologic Clinics of North America* Nafi Aygun, 2016-11-29 This issue of Radiologic Clinics of North America focuses on Skull Base Imaging, and is edited by Dr. Nafi Aygun. Articles will include: Overview of Expanded Endonasal Approaches to the Skull Base for Radiologists; Imaging of Paranasal Sinuses and Anterior Skull Base; Imaging of the Sella Turcica and Pituitary Gland; Imaging of Diplopia; Imaging of the Central Skull Base; Imaging of Vascular Compression Syndromes (Including Trigeminal Neuralgia and Hemifacial Spasm); Imaging of the Posterior Skull Base (Lower Cranial Nerves Excluding the 7th and 8th Nerves); Imaging Evaluation and Treatment of Vascular Lesions at the Skull Base; Perineural Spread of Tumor in the Skull Base; Advanced Imaging Techniques of the Skull Base; High Resolution Imaging of the Skull Base; Imaging of Cerebrospinal Fluid Rhinorrhea and Otorrhea, and more!

planum sphenoidale anatomy: Practical Rhinology Nicholas Jones, 2010-09-24 An ideal textbook for trainee and practising rhinologists and otolaryngologists, Practical Rhinology provides expert direction on all aspects of rhinology. This up-to-date text addresses the most pertinent aspects of contemporary rhinology and provides a distillation of the current advances in this superspecialty from several of the world's leaders in the field. Designed to help the clinician during day-to-day practice, the book emphasizes clinical management and focuses on the most common disorders and symptoms. General chapters on anatomy, pre- and post-operative management and complications are accompanied by skilled guidance on how to address specific surgical problems, such as anterior skull base surgery, the frontal sinus, and nasal tumours. Additional chapters provide invaluable information on technical advances, paediatric conditions, CSF leaks, and orbital and lacrimal surgery. Chapters on how to interpret symptoms and the patient's perspective are also included.

planum sphenoidale anatomy: Neurosurgical Treatment of Central Nervous System Tumors Pietro Mortini, Filippo Gagliardi, 2024-12-02 In this book the most recent technical and technological advancements in the treatment of intracranial tumours will be described, and a wide and updated review of the literature on neurosurgical pathologies with high clinical impact will be offered to the readers. Technical nuances and surgical pearls, as well as tricks suggested by the most renowned experts in the field will be explained and illustrated in the light of the most modern approach to oncological neurosurgical pathologies. Each surgical technique will be contextualized in a multi-modal approach to the pathology, defining specific aims and goals of surgery, and a comparative analysis of surgical and clinical results deriving from the different approaches will be systematically discussed, analyzing the specific drawbacks and advantages in approaching the different pathologies, and emphasizing the preservation of patient’s functioning and quality of life as well as the neurological status. Through this book, the editors aim to provide an effective educational support to already trained and experienced neurosurgeons, who want to approach the multi-modal management of intracranial tumors according to the principles of Evidence Based Medicine, highlighting classes of evidence, by using schemes and therapeutic algorithms based on most updated data available in the literature.

planum sphenoidale anatomy: Head and Neck Imaging E-Book Peter M. Som, Hugh D. Curtin,

2011-04-11 Head and Neck Imaging, by Drs. Peter M. Som and Hugh D. Curtin, delivers the encyclopedic and authoritative guidance you've come to expect from this book – the expert guidance you need to diagnose the most challenging disorders using today's most accurate techniques. New state-of-the-art imaging examples throughout help you recognize the imaging presentation of the full range of head and neck disorders using PET, CT, MRI, and ultrasound. Enhanced coverage of the complexities of embryology, anatomy, and physiology, including original color drawings and new color anatomical images from Frank Netter, help you distinguish subtle abnormalities and understand their etiologies. - Compare your imaging findings to thousands of crystal-clear examples representing every type of head and neck disorder. - Gain an international perspective from global authorities in the field. - Find information quickly with a logical organization by anatomic region. - Master the latest approaches to image-guided biopsies and treatments. - Utilize PET/CT scanning to its fullest potential, including head and neck cancer staging, treatment planning, and follow up to therapy. - Visualize head and neck anatomy better than ever before with greatly expanded embryology, physiology and anatomy content, including original drawings and new color anatomical images. - Grasp the finer points of head and neck imaging quickly with more images, more detail in the images, and more anatomic atlases with many examples of anatomic variants. Access the complete content- and illustrations online at www.expertconsult.com - fully searchable!

planum sphenoidale anatomy: Pediatric Head and Neck Masses, An Issue of Otolaryngologic Clinics of North America John Maddalozzo, 2014-12-27 Experts from childrens' hospitals across the United States discuss diagnosis, treatment, and pathophysiology of head and neck masses in children. Topics include: Branchial cleft cysts; Thyroglossal duct cyst and ectopic thyroid; Vascular malformations; Thyroid nodule and malignancy in children; Lymphoma in pediatrics; Malignancies in the pediatric head and neck - rhabdomyosarcoma and neuroblastoma; Skull base and more including intranasal masses; Tumors of the maxsilla and mandible; Teratoma and dermoid cysts; Inflammatory adenopathy; Disorders and tumors of the salivary glands; Intraoral and lingual lesions; and the Exit procedure. Beyond relevance to Otolaryngologists, this issue of Otolaryngologic Clinics is appropriate for cancer specialists, pediatricians, family practitioners, general surgeons, and pediatric nurse practitioners. Residents training in those fields, as well as Neurosurgery and Ophthalmology, will find this practical.

planum sphenoidale anatomy: Chordomas and Chondrosarcomas of the Skull Base and Spine Griffith R. Harsh IV, Francisco Vaz-Guimaraes, 2017-09-14 Chordomas and Chondrosarcomas of the Skull Base and Spine, Second Edition, is a major reference and guide for neurosurgeons, medical oncologists, neuroscientists, orthopedic surgeons, head and neck surgeons and radiation oncologists that treat patients and research chordomas and chondrosarcomas of the axial skeleton. This book is the unique result of the collaboration of multidisciplinary specialists from a wide variety of fields (neurological sciences, medical oncology, molecular biology, orthopedics and radiation oncology), offering the most relevant information about chordomas and chondrosarcomas of the axial skeleton from each of these fields condensed into one single volume. It contains new medical knowledge and scientific advances regarding the treatment of these types of tumors. Additionally, the book includes chapters written by the Chordoma Foundation and Sarcoma Foundation of America, providing the most valuable information and support for patients and their relatives. - Presents an up-to-date, comprehensive resource that details chordomas and chondrosarcomas from a multidisciplinary approach - Edited by the leading researchers in brain and skull base tumors - Includes chapters written by the Chordoma Foundation and Sarcoma Foundation of America

planum sphenoidale anatomy: Oxford Textbook of Endocrinology and Diabetes John A.H. Wass, Paul M. Stewart, 2011-07-28 Now in its second edition, the Oxford Textbook of Endocrinology and Diabetes is a fully comprehensive, evidence-based, and highly-valued reference work combining basic science with clinical guidance, and providing first rate advice on diagnosis and treatment.

planum sphenoidale anatomy: *Microneuroanatomy and Surgery* Feres Chaddad-Neto, Marcos Devanir Silva da Costa, 2022-01-31 Microneuroanatomy is essential to understanding the brain. In many cases, passing on neuroanatomical knowledge is a difficult task to accomplish, yet this is

chiefly due to those who are tasked with conveying this knowledge in classes and lectures, or in books. In reality, neuroanatomy is simple and needs to be understood as a tool for approaching the different areas of the brain, not as an obstacle, and the only way to overcome this problem is to correlate neuroanatomy with various types of disease (arteriovenous malformations, aneurysms, tumors, cavernomas, hydrocephalus, etc.) This book provides a novel approach to the relation between microneuroanatomy and brain diseases. Each chapter addresses a specific neuroanatomical region, and correlates all the key neuroanatomical aspects with diseases that affect it; further, each chapter provides detailed insights into safely performing brain surgery in the respective region.

planum sphenoidale anatomy: Cushing's Disease Edward R. Laws Jr, Louise Pace, 2016-11-08 Cushing's Disease: An Often Misdiagnosed and Not So Rare Disorder reviews the epidemiology of Cushing's, including statistics on the incidence and prevalence of this disease. There are discussions of the signs and symptoms and the most common co-morbidities, such as diabetes mellitus, hypertension, osteoporosis, amenorrhea, and infertility. Surgical, medical, and radiotherapeutic treatments, including indications, results, risks, and complications, are reviewed. Also featured is a chapter on the patient's perspective, coping with Cushing's, quality of life, and psychosomatic issues. This book is essential reading for the wide range of physicians who treat patients with Cushing's disease symptoms, as well as biomedical researchers who investigate the etiology and mechanisms of rare genetic diseases, in particular rare endocrine disorders. - Reviews the basics of Cushing's disease and its interrelation with hormones, the brain, and bodily functions - Includes chapters on diagnosis, surgical, medical, and radiotherapeutic treatments, and variations in presentation, including cyclical disease - Presents the cognitive and emotional aspects of Cushing's and the long-term sequelae - Offers an important resource for physicians who are accustomed to treating individual symptoms rather than a disease complex - Reviews multidisciplinary management, and post-treatment management of Cushing's, including recommendations for Cushing's Centers of Excellence

planum sphenoidale anatomy: *Youmans Neurological Surgery E-Book* H. Richard Winn, 2011-11-17 Effectively perform today’s most state-of-the-art neurosurgical procedures with Youmans Neurological Surgery, 6th Edition, edited by H. Richard Winn, MD. Still the cornerstone of unquestioned guidance on surgery of the nervous system, the new edition updates you on the most exciting developments in this ever-changing field. In print and online, it provides all the cutting-edge details you need to know about functional and restorative neurosurgery (FRN)/deep brain stimulation (DBS), stem cell biology, radiological and nuclear imaging, neuro-oncology, and much more. And with nearly 100 intraoperative videos online at www.expertconsult.com, as well as thousands of full-color illustrations, this comprehensive, multimedia, 4-volume set remains the clinical neurosurgery reference you need to manage and avoid complications, overcome challenges, and maximize patient outcomes. Overcome any clinical challenge with this comprehensive and up-to-date neurosurgical reference, and ensure the best outcomes for your patients. Rely on this single source for convenient access to the definitive answers you need in your practice. Successfully perform functional and restorative neurosurgery (FRN) with expert guidance on the diagnostic aspects, medical therapy, and cutting-edge approaches shown effective in the treatment of tremor, Parkinson’s disease, dystonia, and psychiatric disorders. Sharpen your neurosurgical expertise with updated and enhanced coverage of complication avoidance and intracranial pressure monitoring, epilepsy, neuro-oncology, pain, peripheral nerve surgery, radiosurgery/radiation therapy, and much more. Master new techniques with nearly 100 surgical videos online of intraoperative procedures including endoscopic techniques for spine and peripheral nerve surgery, the surgical resection for spinal cord hemangiomas, the resection of a giant AVM; and the radiosurgical and interventional therapy for vascular lesions and tumors. Confidently perform surgical techniques with access to full-color anatomic and surgical line drawings in this totally revised illustration program. Get fresh perspectives from new section editors and authors who are all respected international authorities in their respective neurosurgery specialties. Conveniently search the complete text online, view all of the videos, follow links to PubMed, and download all images at www.expertconsult.com.

planum sphenoidale anatomy: Skull Base Imaging Vincent Chong, 2017-10-05 Use today's latest technology and methods to optimize imaging of complex skull base anatomy. This practical reference offers expert guidance on accurate preoperative lesion localization and the evaluation of its relationship with adjacent neurovascular structures. - Features a wealth of information for radiologists and surgeons on current CT and MR imaging as they relate to skull base anatomy. - Covers localizing skull base lesions, reaching the appropriate differential diagnosis, and deciding which surgical approach is best. - Consolidates today's available information and guidance in this challenging area into one convenient resource.

planum sphenoidale anatomy: *Neuroanatomy Guidance to Successful Neurosurgical Interventions* Imad N. Kanaan, Vladimír Beneš, 2024-11-08 This unique book covers a wide spectrum of neurosurgical science and practice. Authored by world-renowned neurosurgeons, it aims to bridge the gap between practical anatomy and the recent advances in neurosurgical interventions. A special section on neurovascular surgery demonstrates the surgical skills required and challenges faced during surgery of complex aneurysms, vascular malformations and options for special revascularization procedures. Distinctive chapters highlight the anatomical landmarks for tailored microsurgical and endoscopic approaches to skull base, ventricular and spinal tumors. This textbook outline the role of white matter dissection in glioma and epilepsy surgery with an update on functional and peripheral nerves neurosurgery and a special chapter on the anticipation and management of complications in adult and paediatric neurosurgery.

planum sphenoidale anatomy: CSF Rhinorrhea Abdulaziz A. AlQahtani, Paolo Castelnuovo, Roy Casiano, Ricardo L. Carrau, 2022-11-15 This comprehensive book is divided into 6 parts that cover all topics related to cerebrospinal fluid (CSF) rhinorrea. It provides in-depth theoretical and practical knowledge, and includes teaching material as well as evidence-based scientific content. The introductory part presents the skull base anatomy, CSF physiology, pathophysiology of skull base defects as well as the role of imaging in this condition. The second and third parts provide details of different diagnostic features and conservative management. The fourth and central part thoroughly illustrates surgical approaches for this clinical condition and follows a similar structure, describing each surgical procedure step-by-step. The fifth part sheds light on the postoperative management and the long-term follow up, while the last part addresses miscellaneous topics, such as quality of life, outcome measures, and medico-legal issues. The book is enriched by a wealth of high-quality figures and online videos that illustrate real-world clinical cases, and each chapter features a summary box, key points and a conclusion. The contributors are leading experts in the field and include authorities and inventors of skull base surgical approaches and reconstruction techniques. The multidisciplinary panel of authors – from 6 continents – consists of neurosurgeons, radiologists and anesthesiologists. The book is intended for medical, surgical and paramedic professionals, and is a valuable resource for all levels – from medical students to consultants.

planum sphenoidale anatomy: *An Atlas of Human Anatomy for Students and Physicians* Carl Toldt, 1903

Related to planum sphenoidale anatomy

Planum Furniture Take a virtual tour of our flagship showroom at the Spring 2025 High Point Furniture Market. Matterport 3D Showcase

PLANUM Definition & Meaning | Merriam-Webster Medical The meaning of PLANUM is a flat surface of bone especially of the skull

Planum | definition of planum by Medical dictionary 1. a flat surface determined by the position of three points in space. 2. an imaginary flat surface that divides the body into sections (see accompanying figure). adj., adj pla´nar. 3. a specified

Planum Furniture At Planum, we build furniture with the precision of industrial series production while maximizing individuality in design. Our furniture program meets the highest requirements in terms of

Planum Furniture Home Aleal View by Type View by CollectionALEAL

Planum Partners | Investment, Advisory, Project Finance We deliver capital solutions to help our partners realise ambitious projects. Planum provides real assets advisory services focused on infrastructure, real estate and energy. Our clients include

Planum Furniture « »About Contact Catalogs News & Events Privacy Policy Dealer Login

Planum Furniture Our In Stock program offers pre-configured items available at short notice, providing high-quality Planum furniture for designers and decorators with tight schedules

planum - Wiktionary, the free dictionary planum (astronomy, planetology, planetography, astrogeography, astrogeology) an elevated plain or plateau on a moon or planet

MOBI - Planum Furniture Home Mobi Mobi View by Category View by TypeMOBI

Planum Furniture Take a virtual tour of our flagship showroom at the Spring 2025 High Point Furniture Market. Matterport 3D Showcase

PLANUM Definition & Meaning | Merriam-Webster Medical The meaning of PLANUM is a flat surface of bone especially of the skull

Planum | definition of planum by Medical dictionary 1. a flat surface determined by the position of three points in space. 2. an imaginary flat surface that divides the body into sections (see accompanying figure). adj., adj pla´nar. 3. a specified

Planum Furniture At Planum, we build furniture with the precision of industrial series production while maximizing individuality in design. Our furniture program meets the highest requirements in terms of

Planum Furniture Home Aleal View by Type View by CollectionALEAL

Planum Partners | Investment, Advisory, Project Finance We deliver capital solutions to help our partners realise ambitious projects. Planum provides real assets advisory services focused on infrastructure, real estate and energy. Our clients include

Planum Furniture « »About Contact Catalogs News & Events Privacy Policy Dealer Login

Planum Furniture Our In Stock program offers pre-configured items available at short notice, providing high-quality Planum furniture for designers and decorators with tight schedules

planum - Wiktionary, the free dictionary planum (astronomy, planetology, planetography, astrogeography, astrogeology) an elevated plain or plateau on a moon or planet

MOBI - Planum Furniture Home Mobi Mobi View by Category View by TypeMOBI

Planum Furniture Take a virtual tour of our flagship showroom at the Spring 2025 High Point Furniture Market. Matterport 3D Showcase

PLANUM Definition & Meaning | Merriam-Webster Medical The meaning of PLANUM is a flat surface of bone especially of the skull

Planum | definition of planum by Medical dictionary 1. a flat surface determined by the position of three points in space. 2. an imaginary flat surface that divides the body into sections (see accompanying figure). adj., adj pla´nar. 3. a specified

Planum Furniture At Planum, we build furniture with the precision of industrial series production while maximizing individuality in design. Our furniture program meets the highest requirements in terms of

Planum Furniture Home Aleal View by Type View by CollectionALEAL

Planum Partners | Investment, Advisory, Project Finance We deliver capital solutions to help our partners realise ambitious projects. Planum provides real assets advisory services focused on infrastructure, real estate and energy. Our clients include

Planum Furniture « »About Contact Catalogs News & Events Privacy Policy Dealer Login

Planum Furniture Our In Stock program offers pre-configured items available at short notice, providing high-quality Planum furniture for designers and decorators with tight schedules

planum - Wiktionary, the free dictionary planum (astronomy, planetology, planetography, astrogeography, astrogeology) an elevated plain or plateau on a moon or planet

MOBI - Planum Furniture Home Mobi Mobi View by Category View by TypeMOBI

Planum Furniture Take a virtual tour of our flagship showroom at the Spring 2025 High Point Furniture Market. Matterport 3D Showcase

PLANUM Definition & Meaning | Merriam-Webster Medical The meaning of PLANUM is a flat surface of bone especially of the skull

Planum | definition of planum by Medical dictionary 1. a flat surface determined by the position of three points in space. 2. an imaginary flat surface that divides the body into sections (see accompanying figure). adj., adj pla´nar. 3. a specified

Planum Furniture At Planum, we build furniture with the precision of industrial series production while maximizing individuality in design. Our furniture program meets the highest requirements in terms of

Planum Furniture Home Aleal View by Type View by CollectionALEAL

Planum Partners | Investment, Advisory, Project Finance We deliver capital solutions to help our partners realise ambitious projects. Planum provides real assets advisory services focused on infrastructure, real estate and energy. Our clients include

Planum Furniture « »About Contact Catalogs News & Events Privacy Policy Dealer Login

Planum Furniture Our In Stock program offers pre-configured items available at short notice, providing high-quality Planum furniture for designers and decorators with tight schedules

planum - Wiktionary, the free dictionary planum (astronomy, planetology, planetography, astrogeography, astrogeology) an elevated plain or plateau on a moon or planet

MOBI - Planum Furniture Home Mobi Mobi View by Category View by TypeMOBI

Back to Home: http://www.speargroupllc.com