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KEY=CLASSIFICATION - KIDD WELCH

MENINGIOMAS

THEIR CLASSIFICATION, REGIONAL BEHAVIOUR, LIFE HISTORY, AND SURGICAL END RESULTS

MENINGIOMAS; THEIR CLASSIFICATION, REGIONAL BEHAVIOUR, LIFE HISTORY, AND SURGICAL END RESULTS

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MENINGIOMAS

THEIR CLASSIFICATION, REGIONAL BEHAVIOUR, LIFE HISTORY, AND SURGICAL END RESULTS. WITH THE COLLABORATION OF LOUISE EISENHARDT

MENINGIOMAS. THEIR CLASSIFICATION, REGIONAL BEHAVIOUR, LIFE HISTORY, AND SURGICAL END RESULTS. BY H. CUSHING ... WITH THE COLLABORATION OF LOUISE EISENHARDT. [WITH ILLUSTRATIONS.]

RADIOSURGERY

7TH INTERNATIONAL STEREOTACTIC RADIOSURGERY SOCIETY MEETING, BRUSSELS, SEPTEMBER 2005

Karger Medical and Scientific Publishers Stereotactic radiosurgery, a field of increasing importance worldwide, is proving its value in primary and adjuvant treatment. Particle beam, gamma knife, and linear accelerator technology have already been successfully used in many operations, and their potential is being further explored. This series, featuring the latest achievements in radiosurgery, reflects the actual state of knowledge in the field. It is the official publication of the International Stereotactic Radiosurgery Society and volumes in this book series will be published every two years, following the main society congress. For neurological surgeons, radiation oncologists, radiologists, and medical physicists, neurologists and allied health practitioners each new volume will set the standard for work in radiosurgery during this period.

MENINGIOMAS E-BOOK

Elsevier Health Sciences Meningiomas, by M. Necmettin Pamir, MD, Peter M. Black, MD, PhD, and Rudolf Fahlbusch, MD, presents current and comprehensive guidance on this most common, yet clinically challenging type of brain tumor. Written and edited by the world's most prominent brain tumor neurosurgeons, it helps you to not only determine the type and location of the tumor, but also the most ideal surgical approach to provide your patients with the best outcomes. An extensive collection of surgical photographs covers unique and original cases, while discussions of pre-surgical techniques and approaches emphasize decision making with the help of all imaging modalities and analysis of symptoms and patient history. Expert Consult functionality enhances your reference power with convenient online access to the complete text and illustrations from the book, along with videos that depict surgical techniques in real time. Provides access to the complete text online—fully searchable, along with all of the illustrations downloadable for your personal presentations, and real-time surgical videos covering microscopic extended endonasal approach to suprasellar meningioma, and more, at expertconsult.com. Covers today's full range of management methods, including adjuvant therapies, providing you with the best strategies for obtaining optimal outcomes. Features the work of the world's most prominent brain tumor neurosurgeons—a completely international authorship—bringing you the best procedures globally. Offers an in-depth section on surgical methods and approaches based upon tumor location, to help you in the decision-making process. Includes coverage of spinal meningiomas including pre-diagnosis symptoms and outcomes.

MENINGIOMAS

DIAGNOSIS, TREATMENT, AND OUTCOME

Springer Science & Business Media The overall incidence of meningiomas, particularly in the developed countries, is rising due to a growing size of the aging population, with people living longer and enjoying healthier lives than ever before. Additionally, an increased utilization of imaging studies such as computer tomography (CT) and magnetic resonance (MR) for routine evaluation of closed head injuries, paranasal sinus problems and various non-specific neurological symptoms, ranging from headaches to dizziness, has contributed to enhanced detection of incidental meningiomas. The book contains the most up-to-date information in all matters related to meningiomas, and is written by multiple contributors - internationally recognized experts in their respective fields from Asia, USA and Europe. This is an essential reference guide to neurosurgeons and neurologists (in training and in practice), as well as medical libraries, throughout the world.

PRINCIPLES AND PRACTICE OF STEREOTACTIC RADIOSURGERY

Springer Science & Business Media This is the first contemporary, comprehensive reference for neurosurgeons and radiation oncologists using Gamma Knife and Linear Accelerator technology. Each chapter includes specific case presentations representative of the most commonly treated conditions, including applications for spinal disorders. Chapters conclude with counterpoint experiences, oriented to treatment options other than radiosurgery. These counterpoint discussions are written by noted experts and address in greater detail the indications, results and complications of their approach and enable readers to improve decision making with regard to their own patients.

PRIMARY OPTIC NERVE SHEATH MENINGIOMA

Springer Science & Business Media Optic nerve sheath meningioma (ONSM) is a rare tumour. Cases are usually separated into primary ONSM, which arises either intraorbitally or, less commonly, intracranially, and secondary ONSM, which arises intracranially and subsequently invades the optic canal and orbit. This is the first book to cover all important aspects of the diagnosis and treatment of primary ONSM. After a general introduction, individual chapters discuss the clinical presentation, clinical examination and diagnosis, imaging, and histology. Treatment options are then addressed in detail, with special emphasis on external beam radiation therapy, and in particular stereotactic fractionated radiation therapy. The latter has recently produced consistently good results and is now considered the emerging treatment of choice for the vast majority of patients with primary ONSM. This well-illustrated book will prove invaluable to all practitioners who encounter primary ONSM in their clinical work.

TUMORS OF THE BRAIN AND SPINE

Springer Science & Business Media Tumors of the Brain and Spine focuses primarily on approaches to the treatment of benign, primary low-grade to high-grade, and metastatic tumors in the brain and spine, as practiced by surgeons and clinicians at the University of Texas M. D. Anderson Cancer Center. The book is written mainly for the primary care oncologist, general neurologist, and general neurosurgeon. Discussion of treatment coverage focuses on neurosurgery, chemotherapy, and radiation therapy, singly and in combination. Also included are chapters on symptom management, molecular genetics and neuropathology of intracranial tumors, leptomeningeal dissemination of systemic cancer, epidemiology of brain tumors, and innovative treatment strategies.

SCHMIDEK AND SWEET: OPERATIVE NEUROSURGICAL TECHNIQUES 2-VOLUME SET, INDICATIONS, METHODS AND RESULTS (EXPERT CONSULT - ONLINE AND PRINT), 6

SCHMIDEK AND SWEET: OPERATIVE NEUROSURGICAL TECHNIQUES 2-VOLUME SET

Elsevier Health Sciences Wherever, whenever, or however you need it, unmatched procedural guidance is at your fingertips with the new edition of Schmidek & Sweet: Operative Neurosurgical Techniques! Completely revised under the auspices of new editor-in-chief Dr. Alfredo Quiñones-Hinojosa, this comprehensive medical reference examines indications, operative techniques, complications, and results for nearly every neurosurgical procedure. Full-color illustrations, 21 new chapters, internationally-acclaimed contributors, surgical videos, and online access make it a "must have" for today's practitioner. Hone your skills for virtually every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Review clinical information on image-guided technologies and infections. Easily understand and apply techniques with guidance from more than 1,600 full-color illustrations. Rely on the knowledge and experience of new editor-in-chief Dr. Alfredo Quiñones-Hinojosa and leading international authorities, who offer multiple perspectives on neurosurgical challenges, from tried-and-true methods to the most current techniques. See exactly how to proceed with online surgical videos that guide you through each technique and procedure to ensure the best possible outcomes and results. Apply the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arterio-venous malformations. Take it with you anywhere! Access the full text, downloadable image library, video clips, and more at www.expertconsult.com. With 337 additional expert contributors. Get procedural guidance on the latest neurosurgical operative techniques from Schmidek & Sweet on your shelf, laptop and mobile device.

SCHMIDEK AND SWEET: OPERATIVE NEUROSURGICAL TECHNIQUES E-BOOK

INDICATIONS, METHODS AND RESULTS (EXPERT CONSULT - ONLINE AND PRINT)

Elsevier Health Sciences Wherever, whenever, or however you need it, unmatched procedural guidance is at your fingertips with the new edition of Schmidek & Sweet: Operative Neurosurgical Techniques! Completely revised under the auspices of new editor-in-chief Dr. Alfredo Quiñones-Hinojosa, this comprehensive medical reference examines indications, operative techniques, complications, and

results for nearly every neurosurgical procedure. Full-color illustrations, 21 new chapters, internationally-acclaimed contributors, surgical videos, and online access make it a "must have" for today's practitioner. Hone your skills for Master virtually every routine and specialized procedure for brain, spinal, and peripheral nerve problems in adult patients. Review clinical information on image-guided technologies and infections. Easily understand and apply techniques with guidance from more than 1,600 full-color illustrations. Rely on the knowledge and experience of new editor-in-chief Dr. Alfredo Quiñones-Hinojosa and leading international authorities, who offer multiple perspectives on neurosurgical challenges, from tried-and-true methods to the most current techniques. See exactly how to proceed with online surgical videos that guide you through each technique and procedure to ensure the best possible outcomes and results. Apply the latest techniques and knowledge in deep brain stimulation for epilepsy, movement disorders, dystonia, and psychiatric disorders; surgical management of blast injuries; invasive electrophysiology in functional neurosurgery; and interventional management of cerebral aneurysms and arterio-venous malformations. Take it with you anywhere! Access the full text, downloadable image library, video clips, and more at www.expertconsult.com.

ATLAS OF TOPOGRAPHICAL ANATOMY OF THE BRAIN AND SURROUNDING STRUCTURES FOR NEUROSURGEONS, NEURORADIOLOGISTS, AND NEUROPATHOLOGISTS

Springer Science & Business Media The traditional education of the neurosurgeon and duce simultaneous contrast preparations of the ar the clinician working in related specialties is based teries and veins and thus obtain a complex photo on their presumed knowledge of the macroscopic graphic representation of the structures of the prep anatomy of the brain as traditionally taught. Most aration. neurosurgical textbooks, therefore, provide macro The manuscript and drawings were completed in the scopic views of sections of the operative site. The years 1974-1976 after almost two decades of neu literature that has accumulated in recent years on rosurgical work. The data worked out in the early the subject of microneurosurgical operations also stages (Chapter 1 in particular) were used by the follows this principle. author as the basis for teaching programmes at the For some years, however, the customary macro University of Giessen. Chapters 2-7, dealing with scopic representation of the anatomy of the brain the operative technical aspects, were produced after has been inadequate for the needs of the neurosur mid-1975 and used by the author as the basis for geon using refined modern operative techniques. microneurosurgical teaching of his colleagues at the Furthermore, despite their detailed presentation, University of Freiburg. stereotactic atlases are also insufficient for neuro My thanks are due to Doz. Dr. E.

INTRACRANIAL STEREOTACTIC RADIOSURGERY, AN ISSUE OF NEUROSURGERY CLINICS

Elsevier Health Sciences This issue of the Neurosurgery Clinics of North America devoted to Intracranial Stereotactic Radiosurgery is Guest Edited by Dr. Bruce Pollock of the Mayo Clinic in Rochester, Minnesota. Articles in this issue include: Concepts and Techniques of Intracranial Stereotactic Radiosurgery; Stereotactic Radiosurgery of Intracranial Meningiomas; Stereotactic Radiosurgery of Pituitary Adenomas; Stereotactic Radiosurgery of Vestibular Schwannomas; Stereotactic Radiosurgery of Non-Vestibular Schwannomas; Multi-session Radiosurgery of Benign Intracranial Tumors; Stereotactic Radiosurgery of Intracranial Gliomas; Stereotactic Radiosurgery of Brain Metastases; Stereotactic Radiosurgery of Chordomas, Chondrosarcomas, and Glomus Tumors; Stereotactic Radiosurgery of Intracranial Arteriovenous Malformations; Stereotactic Radiosurgery of Intracranial Dural Arteriovenous Fistulas; Stereotactic Radiosurgery of Intracranial Cavernous Malformations; Stereotactic Radiosurgery for Trigeminal Neuralgia; and Stereotactic Radiosurgery for Epilepsy and Functional Disorders.

MENINGIOMA: FROM BASIC RESEARCH TO CLINICAL TRANSLATIONAL STUDY

Frontiers Media SA

TUMORS OF THE CENTRAL NERVOUS SYSTEM, VOLUME 7

MENINGIOMAS AND SCHWANNOMAS

Springer Science & Business Media Various aspects, including diagnosis, therapy, and prognosis, of two brain tumors (meningioma and schwannoma) , of brain tumors are discussed in this volume. Insights on the understanding of molecular pathways involved in brain tumor biology are explained. For example, the role of E-cadherin gene instability, carbonic anhydrase 11, urokinase plasminogen activator, and Wnt signaling is discussed in detail. Such information will lead to the development of effective aniiancer drugs. The role of molecular genetics and epigenetic mechanisms in schwannomas is explained. Also, is explained the role of cyclin D1 in vestibular schwannoma. The determination of subtypes of meningiomas using perfusion magnetic resonance imaging is explained. Diagnosis of incidentally discovered meningioma and cystic papillary meningioma is also included. Diagnosis of facial nerve schwannoma, vestibular schwannoma, and intermediate nerve schwannoma is explained. Treatments for atypical meningioma, oncocytic meneingioma, intracranial meningioma, and cavernous are presented. Therapeutic methods such as neurosurgery, Gamma knife radiosurgery, and adjuvant radiation for this cancer are included. Large number of other treatments, including radiosurgery, retrosigmoidal craniotomy, and immunotherapy, for vestibular schwannoma patients are detailed.

PRINCIPLES & PRACTICE OF NEURO-ONCOLOGY

A MULTIDISCIPLINARY APPROACH

Demos Medical Publishing Neuro-oncologic (brain and spine) cancers account for 19,000 new cases and 13,000 deaths per year. The early and proper diagnosis of these virulent cancers is critical to patient outcomes and diagnosis and treatment strategies are continually evolving. The multidisciplinary team that manages these patients involves medical and radiation oncology, neurosurgery, neuroimaging, nurses and therapists. Principles and Practices of Neuro-Oncology establishes a new gold standard in care through a comprehensive, multidisciplinary text covering all aspects of neuro-oncology. Six major sections cover all topics related to epidemiology and etiology, molecular biology, clinical features and supportive care, imaging, neuroanatomy and neurosurgery,

medical oncology and targeted therapies, and radiation oncology for adult and pediatric cancers. Expert contributors from multiple disciplines provide detailed and in-depth discussions of the entire field of neuro-oncology including histopathologic harmonization, neurosurgical techniques, quality of life and cognitive functions, and therapeutic changes in terms of combined modality treatments, advanced radiation techniques, the advent of new drugs, especially targeted agents, and the tantalizing early promise of personalized therapeutic approaches. With contributions from over 180 authors, numerous diagrams, illustrations and tables, and a 48 page color section, *Principles and Practice of Neuro-Oncology* reflects the breadth and depth of this multi-faceted specialty.

ATLAS OF TUMOR PATHOLOGY

YOUMANS AND WINN NEUROLOGICAL SURGERY

Elsevier Health Sciences Widely regarded as the definitive reference in the field, *Youmans and Winn Neurological Surgery* offers unparalleled, multimedia coverage of the entirety of this complex specialty. Fully updated to reflect recent advances in the basic and clinical neurosciences, the 8th Edition covers everything you need to know about functional and restorative neurosurgery, deep brain stimulation, stem cell biology, radiological and nuclear imaging, and neuro-oncology, as well as minimally invasive surgeries in spine and peripheral nerve surgery, and endoscopic and other approaches for cranial procedures and cerebrovascular diseases. In four comprehensive volumes, Dr. H. Richard Winn and his expert team of editors and authors provide updated content, a significantly expanded video library, and hundreds of new video lectures that help you master new procedures, new technologies, and essential anatomic knowledge in neurosurgery. Discusses current topics such as diffusion tensor imaging, brain and spine robotic surgery, augmented reality as an aid in neurosurgery, AI and big data in neurosurgery, and neuroimaging in stereotactic functional neurosurgery. 55 new chapters provide cutting-edge information on Surgical Anatomy of the Spine, Precision Medicine in Neurosurgery, The Geriatric Patient, Neuroanesthesia During Pregnancy, Laser Interstitial Thermal Therapy for Epilepsy, Fetal Surgery for Myelomeningocele, Rehabilitation of Acute Spinal Cord Injury, Surgical Considerations for Patients with Polytrauma, Endovascular Approaches to Intracranial Aneurysms, and much more. Hundreds of all-new video lectures clarify key concepts in techniques, cases, and surgical management and evaluation. Notable lecture videos include multiple videos on Thalamotomy for Focal Hand Dystonia and a video to accompany a new chapter on the Basic Science of Brain Metastases. An extensive video library contains stunning anatomy videos and videos demonstrating intraoperative procedures with more than 800 videos in all. Each clinical section contains chapters on technology specific to a clinical area. Each section contains a chapter providing an overview from experienced Section Editors, including a report on ongoing controversies within that subspecialty.

PROCEEDINGS OF THE XV SYMPOSIUM NEURORADIOLOGICUM

KUMAMOTO, 25 SEPTEMBER - 1 OCTOBER 1994

Springer Science & Business Media Since 1939, the Symposium Neuroradiologicum has been held every 4 years in various cities throughout the world. Great neuroradiologists such as Taveras, Du Boulay, Greitz, Lindgren, and DiChiro have been among the presidents of the previous symposia. The XV Symposium Neuroradiologicum was held in Kumamoto from 25 September through 1 October 1994. More than 1,200 participants gathered to discuss the most recent developments, including interventional neuroradiology, functional imaging, MRI contrast media, new techniques in MRI, iodinated contrast media and other advances. The communications are presented in this book. Special lectures held by Drs. Dillon, Harwood-Nash, and Picard are included. This book covers the most recent advances in neuroradiology.

BRAIN TUMORS E-BOOK

AN ENCYCLOPEDIA APPROACH

Elsevier Health Sciences Meet the increasing need for effective brain tumor management with the highly anticipated revision of *Brain Tumors* by Drs. Andrew H. Kaye and Edward R. Laws. Over the past decade, enormous advances have been made in both the diagnosis and the surgical and radiotherapeutic management of brain tumors. This new edition guides you through the latest developments in the field, including hot topics like malignant gliomas, functional brain mapping, neurogenetics and the molecular biology of brain tumors, and biologic and gene therapy. Benefit from the knowledge and experience of Drs. Andrew H. Kaye and Edward R. Laws, globally recognized experts in the field of neurosurgery, as well as many other world authorities.

TUMORS OF THE CENTRAL NERVOUS SYSTEM

SATALOFF'S COMPREHENSIVE TEXTBOOK OF OTOLARYNGOLOGY: HEAD & NECK SURGERY

OTOLOGY/NEUROTOLOGY/SKULL BASE SURGERY

JP Medical Ltd Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery - Otolaryngology/Neurotology/Skull Base Surgery is part of a multi-volume textbook covering basic and clinical science across the entire field of otolaryngology. Volumes in the set include; rhinology, allergy and immunology; facial plastic and reconstructive surgery; laryngology; head and neck surgery; and paediatric otolaryngology. The full set is enhanced by over 5000 full colour images and illustrations, spanning nearly 6000 pages, complete with a comprehensive index on DVD. Edited by Robert T Sataloff from Drexel University College of Medicine, Philadelphia, this volume includes contributions from internationally recognised experts in otolaryngology, ensuring authoritative content throughout. Sataloff's Comprehensive Textbook of Otolaryngology: Head & Neck Surgery - Otolaryngology/Neurotology/Skull Base Surgery is an indispensable, in-depth guide to the field for all otolaryngology practitioners. Key Points Textbook of otology/neurotology/skull base surgery, part of six-volume set covering the entire field of otolaryngology Volumes include rhinology, plastic surgery, laryngology, head and neck surgery, and paediatric otolaryngology Over 5000 full colour images and illustrations across six volumes Edited by

Robert T Sataloff, with contributions from internationally recognised otolaryngology experts

SURGERY OF SKULL BASE MENINGIOMAS

WITH A CHAPTER ON PATHOLOGY BY G. F. WALTER

Springer Science & Business Media Although surgery of the skull base still represents a frontier involving different specialties, it is increasingly being accepted and recognized as a special area posing both unique diagnostic and surgical challenges and specific requirements. This is the prime reason that colleagues involved in the management of skull base processes need special training stressing the different surgical approaches required either at different times or to reach the different areas of this intriguing anatomical landmark. Although the advent of microsurgical techniques and advanced diagnostic modalities - high-resolution computed tomography, magnetic resonance imaging (MRI) and MR-angiography, and superselective endovascular protocols - in the last 25 years has brought significant improvements, such as the recent advances in endovascular treatment, a number of different kinds of limitations still persist. This is especially so in the case of skull base meningiomas, the pathological entity most frequently affecting this area which the neurosurgeon is confronted with in daily practice. Besides understanding the intrinsic characteristics of the different pathological entities which involve the skull base, it is the responsibility of physicians to know and employ the expanded neurosurgical options in the most effective and appropriate way.

NEURO-ONCOLOGY

Springer Science & Business Media This volume contains the proceedings of the latest in a series of international symposia on advances in neuro-oncology, held September 26-29, 1990, in San Remo, Italy and sponsored by the University of Pavia, I.R.C.C.S. Policlinico San Matteo (Pavia, Italy) and the Giovanni Lorenzini Medical Foundation (Milan-Houston). It drew papers from six continents of the world, was attended by over 500 investigators, and demonstrated the extraordinary vitality, depth and breadth of research which characterizes modern neuro-oncology. Over the course of the last decade, there has been a remarkable shift in research carried out in the heterogeneous field of neuro-oncology, which appears to be away from clinical descriptive studies, and toward more basic and fundamental investigation of the pathology, immunohistochemistry, biochemical and cellular subsets of brain tumors. Besides the traditional fields of neurology, neurosurgery, neuropathology, and radiation therapy, there has been an increased interest and involvement by investigators in the fields of medical oncology, neuroradiology, immunology, and many areas of fundamental neurobiology. It has become evident that interest has also been exhibited in a broader spectrum of tumors than just the malignant glial series, and studies in meningioma, craniopharyngioma, neurinomas, and the pituitary tumors were reported. Several sessions were devoted to the special problems of pediatric brain tumors.

CONGRESS OF NEUROLOGICAL SURGEONS ESSENTIAL PAPERS IN NEUROSURGERY

Oxford University Press, USA "The Congress of Neurological Surgeons (CNS) Essential Papers in Neurosurgery brings to the neurosurgical community a unique collection of critically appraised neurosurgical papers shedding light on some of the most impactful studies in the history of neurosurgery. The "CNS Essential Papers" project is rooted in the culture of evidence-based medicine and data-driven decision making"--

SURGERY OF CEREBELLOPONTINE LESIONS

Springer Science & Business Media This book covers the entire spectrum of cerebellopontine angle lesions, from the most common to the rarest. All aspects are considered, including biological and radiological characteristics, neurological presentation, diagnosis, treatment options and follow-up care. The main focus, however, is on surgical management, which is presented in detail with the aid of numerous figures and images documenting technical particularities. Emphasis is placed on an individualized approach tailored to the particular tumor type and extension pattern. Both novice and experienced surgeons will find the book to be an invaluable source of information and guidance. It will enable neurosurgeons in the initial years of training to understand and become familiar with the main steps in surgical management while simultaneously providing their senior colleagues with details and technical tips that will help to improve treatment results.

RADIOTHERAPY FOR NON-MALIGNANT DISORDERS

Springer Science & Business Media This volume discusses the background and various clinical applications of radiation therapy in the treatment of non-malignant diseases. It documents the radiobiological and physical principles of treatment and the rationale underlying the use of radiotherapy for various disorders of the CNS, head and neck, eye, skin and soft tissues, bone and joints, and vascular system. In so doing, it draws attention to and elucidates the scope for application of radiotherapy beyond the treatment of malignancies. Both the risks and the benefits of such treatment are fully considered, the former ranging from minor clinical problems to life-threatening diseases.

FORENSIC NEUROPATHOLOGY

CRC Press Over the past 30 years, as both forensic pathology and neuropathology have grown in sophistication, the two specialties have forged a heightened level of interaction. Reflecting the vast increase in knowledge and scientific progress in the past two decades, Forensic Neuropathology, Second Edition examines the new developments that have arisen since

CONTEMPORARY SKULL BASE SURGERY

A COMPREHENSIVE GUIDE TO FUNCTIONAL PRESERVATION

Springer Nature 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.

LASERS IN NEUROSURGERY

Springer Science & Business Media Developments in the field of instrumentation of innovative instrumentation. Although laser applications have permeated nearly every aspect are among the major contributions to human advancement. The history of surgery has seen of surgical therapy, the expectations have for many revolutionary developments cause quantum quently been unrealistic and the evaluation of leaps in progress. Electrocautery, the anesthesia technological development has always been machine, computed axial tomography, and the painfully slow. The properties of vaporization, surgical microscope are all revolutionary in coagulation, and cutting unified in an invisible struments that have irrevocably changed the shaft of light have enabled the neurosurgeon to direction of neurological surgery. vaporize inaccessible tumors of brain and spinal In the early stages of application, there are cord, harness recalcitrant bleeding sites, and cut always detractors and valid controversy concern through the most formidable calcified tumors. ing the value of a new instrument. Some will The application of this new energy form in remember those who argued that the magnifica tandem with the surgical microscope has, in my tion and illumination provided by the micro opinion, extended the scope of all aspects of scope were not valuable to the skilled surgeon neurosurgery. We have much more work to do, and would prolong the operative time and in It is necessary to document improved results and crease infection rates. Others may recall that demand technological advances and safe inno Cushing was told to abandon the blood pressure vations.

ATLAS OF SELLAR AND PARASELLAR LESIONS

CLINICAL, RADIOLOGIC, AND PATHOLOGIC CORRELATIONS

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

LASERS IN NEUROSURGERY

Springer Science & Business Media With the exploding progress we are experiencing in the field of lasers in neurosurgery it was felt that a new volume devoted to lasers in neurosurgery is needed. As opposed to other early laser publications which were limited to North American contributors we have decided to publish Lasers in Neurosurgery which presents the findings of neurosurgeons from throughout the world. The decision to publish all contributions in English, regardless of the native language of the author, makes Lasers in Neurosurgery truly a forum for international neurosurgeons. Our intent is to make available the findings of international neurosurgeons, which are frequently published in less familiar languages, to neurosurgeons beyond the boundaries of the authors' countries. We hope that neurosurgeons not only in North America and Europe, but throughout the world, will profit by Lasers in Neurosurgery. November 1988 Edward F. Downing, M. D. , F. A. C. S. Contents FRANK, F. : Basic Physics and Biophysics 1 TEW JR. , J. M. , TOBLER, W. D. , ZUCCARELLO, M. : The Treatment of Arteriovenous Malformations of the Brain with the N- dymium: YAG Laser. 19 CLARK, W. C. , ROBERTSON, J. H. : Laser Resection of Meningiomas 49 ASCHER, P. W. : Tumours on and in the Pons and Medulla oblongata 69 NEBLETT, C. R. : Reconstructive Vascular Neurosurgery: Micros- gical CO Laser Application. 95 2 CRONE, K. R. , BERGER, T. S. , TEW JR. , J. M. : Laser Applications in Pediatric Neurosurgery.

PATHOLOGY AND SURGERY AROUND THE VERTEBRAL ARTERY

Springer Science & Business Media This is the first comprehensive book about surgery on and around the vertebral artery all

along its cervical and intracranial course. This vessel has been considered for long as out of surgical reach leaving many different pathologies not or incompletely treated. The surgical exposure and control of the vertebral artery not only permit to treat lesions of the vertebral artery wall or developed in contact to it but also to improve the access to the intervertebral foramen (tumors, osteophytes), to the anterior aspect of the spinal cord (tumors, spondylotic spurs), to the foramen magnum and to the jugular foramen. This book written by leading experts includes all aspects of vertebral artery surgery from anatomy to imaging, surgical techniques and pathologies; it is illustrated by many figures especially operative views and schematic drawings so that the beginner as well as the experienced surgeon find useful information. One of the editors of this book (B. GEORGE) was recently awarded the Olivecrona award for his work on the surgery of the vertebral artery.

PRACTICAL HANDBOOK OF NEUROSURGERY

FROM LEADING NEUROSURGEONS

Springer Science & Business Media "Practical Handbook of Neurosurgery" invites readers to take part in a journey through the vast field of neurosurgery, in the company of internationally renowned experts. At a time when the discipline is experiencing a (detrimental) tendency to segment into various subfields and scatter in the process, it can be worthwhile to collect a number of practical lessons gleaned from experienced and leading neurosurgeons. The book also aims to present numerous important figures in the neurosurgical community, with a brief overview of the vitae and main contributions for each. We must confess that we were sad that some of the most active members were unable to participate, likely due to time constraints. We are however fortunate that the majority were able to take part. As such, though not exhaustive, the book does represent an anthology of contemporary neurosurgeons. From the preface: At the very beginning of the project, our intention was to make a "poetbook". But month after month it became obvious that the work would be much more expansive; ultimately we produced three volumes. Nevertheless we hope that all the three volumes together will remain easily accessible and a daily companion. The pocket has to be more like a travel bag! We would like to thank all of the contributors; they have sacrificed their valuable time to deliver sound and critical views, and above all useful guidelines.

TUMORS OF THE CENTRAL NERVOUS SYSTEM, VOLUME 13

TYPES OF TUMORS, DIAGNOSIS, ULTRASONOGRAPHY, SURGERY, BRAIN METASTASIS, AND GENERAL CNS DISEASES

Springer Science & Business Media Volume 13: Pineal, Pituitary, and Spinal Tumors is organized in six sections, for convenience and quick access to critical information. Section I, Types of Tumors includes a chapter on molecular characterization of Embryonal tumors, a chapter on diagnosis of metastatic oligodendroglioma using fine-needle aspiration cytology, one covering intra-arterial chemotherapy of oligodendroglial tumors and another on the role of cyclooxygenase-2 in the development and growth of Schwannomas, and others, closing with a chapter on trigeminal neuralgia with cerebellopontine angle tumors. Section II, Diagnosis, includes two chapters on cell counting in histopathologic slides of tumors. Section III offers three chapters which discuss aspects of intraoperative ultrasonography. Section IV covers brain tumor surgery, and Section V surveys Brain Metastasis. The final section offers a wide-ranging review of General Diseases, with chapters on, among others, Alexander Disease; Lipoma; Transplantation of human umbilical cord blood mononuclear cells in cases of neonatal hypoxic-ischemic brain damage; and a chapter discussing the use of mobile phones and brain cancer risk in children. Like its twelve predecessors in the series, this volume merits distinction for its thorough approach, its roster of 78 distinguished contributors representing 14 different countries and its detailed examination of leading-edge technology and methods.

FORENSIC NEUROPATHOLOGY, THIRD EDITION

CRC Press The field of forensic neuropathology covers such controversial topics as the effects of repeated brain trauma in football players and how babies probably cannot die from being shaken. Jan Leestma is one of the most respected voices in this area. A timely update to his classic reference, Forensic Neuropathology: Third Edition presents an encyclopedic exposition of neuropathological conditions that may have forensic import. Reflecting the latest research, this edition includes expanded sections on multiple trauma, one punch/one hit arterial injuries, and the physiology of respiratory control. It presents new perspectives and rules regarding expert testimony and evidence admissibility occasioned by Daubert and related Supreme Court cases. The book explores how these rulings affect forensic pathologists, neuropathologists, and other potential experts as well as how they interact with the legal system. Several chapters examine the mechanisms and pathophysiology of neuropathological conditions and discuss the biomechanical basis for neurological injury. Where possible, aging and dating methodology is included for various processes. More than 325 updated full-color illustrations complement the text along with diagrams, tables, and figures that illustrate the textual material and can be useful as exhibits in court. An extensive bibliography provides background information and facilitates further research.

FROM BENCH TO BEDSIDETRAUMA, TUMORS, SPINE, FUNCTIONAL NEUROSURGERY

BoD - Books on Demand This book is written for graduate students, researchers, and practitioners who are interested in learning how the knowledge from research can be implemented in clinical competences. The first section is dedicated to deep brain stimulation, a surgical procedure which is the paramount example of how clinical practice can take advantage from fundamental research. The second section gathers four chapters on four different topics and illustrates how significant is the challenge to translate scientific advances into clinical practice because the route from evidence to action is not always obvious. It is hoped that this book will stimulate the interest in the process of translating research into practice for a broader range of neurosurgical topics than the one covered by this book, which could result in a forthcoming more comprehensive publication.

ATLAS OF GROSS NEUROSURGICAL PATHOLOGY

Springer Science & Business Media This Atlas is one of a series devoted to neurosurgical and neurological conditions and is complementary to *Atlas of the Histology of Brain Tumors* (Springer-Verlag, Berlin-Heidelberg-New York 1971), which was the first in the atlas series. The Atlas is based on the *Handbuch der Neurochirurgie*, Vols. I and III (Springer 1956, 1959) but, whereas this is a comprehensive reference work, the present book is intended to give the practicing neurosurgeon, neuroradiologist, neuropathologist and neurologist the concise information they need for diagnostic purposes concerning the aspect, site, and malignancy of tumors and other space-occupying lesions in the brain. The schematic diagrams showing the sites of predilection of these tumors, as well as a prognosis based on the degree of malignancy, will be most useful here. The early chapters discuss the general rules governing displacements due to space-occupying lesions and the manifestations of brain herniations. Other neurosurgical conditions, such as localized inflammatory processes, edema and obstructive hydrocephalus, are dealt with in brief chapters; in this case I have chosen to show some of the rarer conditions rather than all the common lesions. In spite of probable future changes in terminology and classification, we have retained the classification used in the *Atlas of Histology of Brain Tumors*.