

[MOBI] Spine And Spinal Cord Tumors Advanced Management And Operative Techniques

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It is your completely own grow old to work reviewing habit. accompanied by guides you could enjoy now is **spine and spinal cord tumors advanced management and operative techniques** below.

Spine and Spinal Cord Tumors-Christopher Ames 2013-12-20 In the last decade, research has led to dramatic advancements for treating spinal cord tumors and has confirmed the

importance of radical surgery for primary bone tumors and the role of multidisciplinary treatment for metastatic tumors and sarcomas. Spine and Spinal Cord Tumors: Advanced Management and Operative Techniques is the first textbook to combine these cutting-edge developments from the forefront of medical

oncology and radiosurgery with information on the most advanced procedures to reflect the latest trends, techniques, and information. The result is a comprehensive work that is current, clinically relevant, and filled with valuable insights that will change the way you treat spinal cord tumors. Comprehensive Coverage Divided into four parts, the book begins with fundamentals and includes chapters on anatomy, neuroradiology, heavy particle radiation, and radiosurgery, as well as rehabilitation and plastic surgery considerations for primary reconstruction. Part II focuses on oncology and includes chapters on site-specific disease and information about the prognosis and treatment of specific tumors. Part III contains comprehensive clinical chapters on a wide range of operative techniques used for treating and resecting primary tumors. Each chapter includes information on indications and contraindications, preoperative evaluation, clinical decision making, outcomes, and case examples; illustrated step-by-step surgical technique is also included. Tips for avoiding pitfalls and complications and bailout

techniques have been highlighted throughout. The book concludes with Part IV on complications and outcomes. Two DVDs contain operative video that complements the text. This Is a Reference You Simply Must Own! This landmark work is essential reading and a must for any professional treating spinal cord tumors. Its clear organization and surgical guidance will improve your outcomes with your very next case.

Oncologic Imaging: Spine and Spinal Cord Tumors-Heung Sik Kang 2017-03-24

This book is a detailed guide to image interpretation in patients with spine and spinal cord tumors that will enable clinicians and residents to improve their diagnostic abilities. The book opens by introducing basic concepts in the imaging of spinal tumors, namely the compartmental approach and the histologic basis for the different imaging appearances. These concepts are explained with the aid of representative cases and schematic illustrations. The second part of the book represents a “training step” in

which various spinal tumors are described in detail, focusing on the imaging findings. Representative cases are presented with radiographic, CT, and MR images; in addition, schematic illustrations and pathologic or operative images are included in selected cases. The third part is a “practice step” describing tips for correct imaging diagnosis. Individual chapters in this part focus on incidence-, age-, location-, and imaging pattern-based approaches to bone, extradural, intradural extramedullary, intramedullary, and pediatric spinal tumors. The presented cases will enhance the reader’s understanding of the different tumor patterns and assist in solving diagnostic problems that may be encountered in daily practice.

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Spinal Cord and Spinal Column Tumors-

Alessandro Landi 2019-11-22 A spinal column tumor is a cancerous (malignant) or noncancerous (benign) growth that develops within or near the spinal cord or within the bones of the spine and aren't as common as brain tumors, but they do occur. The majority of spinal cord tumors are found in children and young adults, but anyone can be diagnosed with a tumor at any point in their life. Treatment for a spinal tumor may include surgery, radiation therapy, chemotherapy or other medications. Surgery can range from a minimally invasive procedure to complex reconstruction depending on the severity of cancer involvement. This book aimed to have a complete and detailed update on spinal oncologic pathology and the most advanced techniques for diagnosing and managing spinal cord and spinal column tumors. From the fundamentals of spinal cord anatomy and spinal tumors pathology to the clinical evaluation, radiological diagnosis and treatment techniques for specific spinal tumors. The book is

divided into two sections, one on spinal cord tumors and one on vertebral column tumors. The text contains multidisciplinary notions on surgical approaches for resection, reconstruction, decompression and stabilization for spinal tumors. Furthermore, the text contains important updates on the diagnosis and treatment of vertebral metastases with particular attention to diagnostic algorithms. It contains contributions and experiences of some of the world's leading experts in the treatment of spinal oncological pathology, making this work rich and complete. This book is aimed at neurosurgeons, orthopedic surgeons and specialists who require a complete text on current techniques in the management of spinal tumors.

Spinal Cord Tumors-

Kenan I. Arnautović 2019-01-24 This book provides state-of-the-art, in-depth knowledge of spinal cord tumor surgery. After an introduction to the history and etiology of spinal cord tumor treatment, the molecular biology, cytogenetics and pathology of this group

of tumors is discussed. The pathological anatomy of spinal cord tumors is described and the book focuses in depth on their diagnosis and the surgical approaches that can be used in their treatment. Microsurgery resection techniques, auxiliary treatment options, prognosis and outcomes of spinal cord, and spinal nerve tumors are all covered in detail. Spinal Cord Tumors is aimed at neurosurgeons and may also be of interest to neurologists, neuro-oncologists, radiologists, physiatrists, pathologists, geneticists, orthopedic surgeons, physical and occupational therapists, and other interested scientists.

Spinal Cord and Spinal Column Tumors-

Curtis A. Dickman 2011-01-01 This text covers the state-of-the-art techniques for diagnosing and managing tumors of the spine and spinal cord. From the fundamentals of spinal cord anatomy and the pathology of spinal tumors, to the evaluation, diagnosis, and treatment techniques for specific spinal tumors, this is the only

comprehensive text devoted to managing tumors both surgically and non-surgically. You'll find the latest information on surgical approaches for resection, reconstruction, decompression, and internal stabilization for tumors of the spine, spinal cord, and peripheral nerves. The book also covers such treatments as systemic and intrathecal chemotherapy, embolization techniques, external beam radiation therapy, brachytherapy, and stereotactic radiosurgery. Special features: 775 high quality illustrations, including 369 in brilliant four color, illuminate concepts in pathology and surgical technique Full review of the basic science of tumors of the spinal cord and nerves aids the comprehension of pathology and indications for treatment Step-by-step instruction guides the clinician through operative approaches, including decompression of tumors, en bloc resection of primary spinal tumors, reconstruction of the spine, spinal fixation and more Discussion of the current algorithm techniques to manage metastatic spinal disease This book will benefit established neurosurgeons, orthopedic surgeons, and

residents requiring a complete text on current techniques in managing tumors of the spine and spinal column.

Tumors of the Spine and Spinal Cord-Vinken, P.J., ed 1976

Spinal Imaging-Johan W.M. van Goethem
2007-12-27 - Comprehensive, up-to-date textbook on the imaging of frequently encountered spinal disorders - Richly illustrated - All imaging modalities considered, e.g. plain film, multidetector CT and MRI - Designed to ensure ease of use, with a logical structure and extensive index

Diseases of the Spine and Spinal Cord-
Thomas N. Byrne 2000-01-13 Diseases of the Spine and Spinal Cord reviews the full spectrum of disorders affecting this region including primary spinal tumors and metastases, infection,

degenerative diseases, and trauma. Presenting an inter-disciplinary perspective, the book includes up-to-date information on therapy [including neurosurgical], new information on developmental disorders of the spine, and a definitive chapter on trauma, including information on biomechanics. A separate chapter on pain syndromes also is included.

Surgical Spinal Oncology-Kern Singh
2020-08-21 This book contains the expert knowledge base of the field's most experienced practitioners in the field of extradural bone and soft tissue malignancy. Chapters include modern classification, advanced anatomy, imaging, and the concepts around a multidisciplinary approach. Since treating primary tumors requires very different strategies than those used in metastatic tumors, the book devotes separate sections to each sub-discipline. For primary tumors, the text covers both benign and malignant entities and addresses unique anatomic zones such as the sacrum and skull

base which require special technical expertise. For metastatic disease, the authors address the ever-important concept of prognosis, and discuss how to answer the eternal question: "How much should we do, and for whom?". Chapters also explore the state of the art of treatment for the "big 5" histologies (renal cell, lung, breast, prostate, thyroid), with a special chapter emphasis on separation surgery and the now-standard combinatorial care between radiation and surgery. In addition, an entire section is dedicated to evolving surgical technology, which covers the use of minimally invasive techniques, navigation, robotics, 3D-printing, and other evolving technologies for spine tumor care. Infrequently-considered topics, such as how to evaluate a lesion which may be a tumor-mimic, and how to think about economic value in spine tumor surgery, are also presented. Surgical Spinal Oncology serves to help surgeons approach difficult clinical scenarios with a thoughtful, collaborative approach that leverages the best technology and thinking the field of spine oncology has to offer.

Spinal Cord Tumors Experimental Neurosurgery Neurosurgical Intensive Care-

H. Wenker 2012-12-06 This 14th volume of Advanaes in Neurosurgery includes the papers presented at the 36th Annual Meeting of the German Society of Neurosurgery in Berlin, May 12-15, 1985. I would like to take this opportunity to thank the members of the program committee of the Society, Priv.-Doz. Dr. Klinger, Professors Brock, Dietz, Frowein, Lausberg, Wlillenweber, and Dr. Reuter for their assistance in selecting the contributions and in organizing the scientific program. The first main topic of the meeting was Spinal Cord Tumors. Introductory lectures dealing with basic anatomic knowledge, neuropathological as pects, and neurologic problems were followed by reports on examinations using conventional neuroradiology, scintiscanning, computer tomography as well as the most recent method in the diagnosis of spinal tumors, the magnetic resonance tomography. Also presented were the results of a

multicentered study on spinal tumors, ascertained in cooperation with 43 German and Austrian neurosurgical clinics. The participants reported in great detail on the statistical data they recorded from 3056 cases and on the scientific findings obtained from this study. The session concluded with lectures on the possibilities for surgical treatment of spinal tumors and on oncologic and radiotherapeutic measures. Experimental Neurosurgery was the second main topic. Leading authorities in the field presented interesting papers on topics such as the therapy of vasculogenetic brain edema, the determination of neurotransmitters in brain tumors, results of cerebral blood flow measurement, and improved operative techniques using laser radiation.

Tumors of the Spine E-Book-Daniel H. Kim
2008-05-14 Achieve optimal outcomes for your patients with this new multimedia reference. Organized by tumor then by region, this resource details diagnostic and therapeutic options for

primary and malignant spinal tumors. Over 25 key procedures--including minimally invasive surgery--are presented in a concise, stepwise fashion, putting the key information you need right at your fingertips! Over 600 illustrations round out this exhaustive new reference. Keep up to date on the latest advances in diagnosis and therapy with discussions of the latest surgical techniques, including minimally invasive spine surgery. Chapter templating helps you understand the entire procedure as well as key aspects, pearls and pitfalls, before heading into the OR. Have all the information you need to make a diagnosis and plan patient management with oversized, full color clinical photos and line drawings that illustrate key diagnoses and surgical procedures.

Tumors of the Central Nervous System, Volume 6-M.A. Hayat 2012-02-08 This volume contains information on the diagnosis, therapy, and prognosis of spinal tumors. Various aspects of different major types of spinal tumors

(astrocytomas, ependymomas, and oligodendroglioma) are discussed. Insights into the understanding of molecular pathways involved in tumor biology are explained. Classification of intradural spinal tumors, including the percentages of each of the three major types, is detailed. Symptoms, radiological features, and clinicopathological parameters of spinal cord tumors are explained. Diagnosis, outcome, and prognosis of primary spinal cord and oligodendroglioma are discussed. Diagnosis of some other spinal tumors (e.g., pilomyxoid and chordomas) is also explained. The useful role of neuroimaging in diagnosing spinal teratoid/rhabdoid and gangliogliomas is included. A wide variety of treatments of a number of spinal cord tumor types are presented in detail. Therapies discussed include chemotherapy, surgery, radiosurgery, stereotactic radiosurgery, Cyberknife stereotactic radiotherapy, standard radiation alone, and rhenium-186 intracavity radiation. Also are discussed embolization and spondylectomy. The usefulness of transplantation of human embryonic stem cells-derived

oligodendrocyte progenitors and motoneuron progenitors in the repair of injured spinal cord is emphasized. Symptoms of the advent of spinal tumors are pointed out. Introduction to new technologies and their applications to spinal cord tumor diagnosis, treatment, and therapy assessment are explained.

Spinal Tumor Surgery-Daniel M. Sciubba
2018-12-12 This practical, step-wise text covers the surgical approaches, resection strategies and reconstruction techniques used for each type of presenting tumor of the spine. Demonstrating the variety of anterior, posterior and intradural approaches and stabilization techniques, and spanning from pathologies of the craniocervical region to sacral and intradural pathologies, each chapter is generously illustrated with figures, radiographs and intraoperative photos. The chapters themselves follow a consistent and user-friendly format: the anatomy and biomechanics of a specific region, patient evaluation, essential oncologic principles, the decision-making

process, and technical steps of surgery. A representative case illustration is provided at the conclusion of each chapter, exemplifying pertinent concepts described. Additionally, video segments accompany selected chapters, providing real-time illustration of surgical techniques. Technical and in-depth, yet highly accessible, **Spinal Tumor Surgery: A Case-Based Approach** is an essential resource for orthopedic spine surgeons, neurosurgeons, and surgical oncologists operating on tumors of the spine.

Angiography of Spinal Column and Spinal Cord Tumors-René Djindjian 1981

Handbook of Clinical Neurology: Tumors of the spine and spinal cord-P. J. Vinken 1976

Tumors of the Spine-Narayan Sundaresan 1990
A comprehensive and superbly illustrated reference of the diagnosis and management of

spinal tumors. Covers general principles, radiology and pathology of spine tumors and pseudotumors, particle beam therapy, cryosurgery, osteosarcoma of the spine, surgical considerations and approaches such as trans-oral approach, complete spondylectomy and much more.

Angiography of Spinal Column and Spinal Cord Tumors-René Djindjian 1981

Handbook of Clinical Neurology-Pierre J. Vinken 1968

Pediatric Neurology-Wesley Hsu 2013-04-23
Although tumors of the central nervous system in children constitute the second most prevalent tumor type of childhood, spinal cord tumors account for less than 10% of pediatric central nervous system tumors. The most common are intramedullary, although they can be found in the

extradural compartment or as intradural extramedullary masses. Extradural tumors can arise from bony elements, the meninges, or soft tissues. Neuroblastomas and sarcomas are frequently encountered along with bone tumors. Intradural extramedullary tumors can be meningeal or from distant sites and include meningiomas and schwannomas; most tend to be benign. Intradural intramedullary tumors, neuronal or glial, can be derived from neuroepithelial tissues. For the intramedullary tumors, astrocytomas represent around 60% of tumors, ependymomas 30%, and developmental tumors 4%. Such tumors require a multidisciplinary approach to ensure optimal patient outcomes. Spinal cord tumors most often present with pain followed by motor regression, gait disturbance, sphincter dysfunction or sensory loss, torticollis, and kyphoscoliosis. Treatment is based on tumor type, but surgical resection is the mainstay. Predictors of outcome include the histological grading, extent of resection, and neurological status at the time of surgery.

Surgery of the Spine and Spinal Cord-Charles Harrison Frazier 1918

Surgery of Spinal Cord Tumors Based on Anatomy-Chun Kee Chung 2021-01-20 This book describes and illustrates an approach to surgery for spinal cord tumors that is based on a refined concept of anatomic compartmentalization. The aim of this approach is to enable maximum preservation of spinal cord function through confinement of the surgical work to the involved compartment or compartments. Importantly, this involvement differs according to tumor type, and the classification favored by the author takes this fully into account. After introductory chapters on epidemiology and pathology, the anatomy of the spinal cord relevant to surgery for spinal cord tumors is discussed in detail and the proposed classification is clearly explained. The surgical approach to each of the identified anatomic compartments is then described, with attention

to the roles of intraoperative mapping techniques, diffusion tensor imaging, and electrophysiologic studies in ensuring that spinal cord functions are spared. Examples of the author's experience when applying the proposed approach are presented. The book is meant for neurosurgeons at all levels of experience.

Spinal Tumors-Henry E. Aryan 2010-10-22 In the United States there are 1.2 million new cancer cases diagnosed per year, and of this number, up to 30% of patients will develop symptomatic spinal metastasis. The management of metastatic cancer is an evolving discipline, and treatment strategies are constantly changing as technology improves and the understanding of cancer biology deepens. *Spinal Tumors: A Treatment Guide for Patients and Family* helps inform both patients and their families about treatment options and helps unlock the confusing, sophisticated, and sometimes contradictory information about the best ways to proceed with cancer treatment. Written by

leading Neurosurgeon, Dr. Henry E. Aryan, this book is an essential resource for anyone dealing with the terrifying, exhausting, and confusing experience of symptomatic spinal metastasis.

The Pediatric Spine III-Anthony J. Raimondi 2012-12-06 It is estimated that the functionally significant body of knowledge for a given medical specialty changes radically every 8 years. New specialties and "sub-specialization" are occurring at approximately an equal rate. Historically, established journals have not been able either to absorb this increase in publishable material or to extend their readership to the new specialists. International and national meetings, symposia and seminars, workshops and newsletters successfully bring to the attention of physicians within developing specialties what is occurring, but generally only in demonstration form without providing historical perspective, pathoanatomical correlates, or extensive discussion. Page and time limitations oblige the authors to present only the essence of their

material. Pediatric neurosurgery is an example of a specialty that has developed during the past 15 years. Over this period, neurosurgeons have obtained special training in pediatric neurosurgery, and then dedicated themselves primarily to its practice. Centers, Chairs, and educational programs have been established as groups of neurosurgeons in different countries throughout the world organized themselves respectively into national and international societies for pediatric neurosurgery. These events were both preceded and followed by specialized courses, national and international journals, and ever-increasing clinical and investigative studies into all aspects of surgically treatable diseases of the child's nervous system.

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Spinal Cord Tumors ; Experimental Neurosurgery ; Neurosurgical Intensive Care-Deutsche Gesellschaft für Neurochirurgie.

Tagung 1986-01-01 Enth.: Spinal cord tumors ; Experimental neurosurgery ; Neurosurgical intensive care.

100 Questions & Answers About Spine Disorders-Rahul Jandial 2009-10-07 Spine disorders, including degenerative disk disease, spinal tumors, scoliosis, spinal trauma, etc., are very common. The problems range from inconvenient to life-threatening. New treatments are curing or at least improving the Quality Of Life of spine disorder patients. This easy to read book answers all questions that a patient diagnosed with a spine disorder will need to know about what to expect.

Angiography of Spinal Column and Spinal Cord Tumors-René Djindjian 1981

Tumours of the Spine and Spinal Cord-G. W. Bruyn 1975

AOSpine Masters Series Volume 1: Metastatic Spinal Tumors-Luiz Roberto Gomes Vialle 2014-09-30 This first volume in the AOSpine Masters Series integrates the expertise of oncologists and radiology interventionalists with that of master spine surgeons, all of whom are actively involved in the care of patients with metastatic spine tumors. The book provides expert guidance to help clinicians make the right treatment decisions and provide the best care for their patients. Chapter topics range from evaluation and decision-making principles to a spectrum of non-operative and operative treatment options that have been rapidly evolving over the past decade. The AOSpine Masters Series, a co-publication of Thieme and the AOSpine Foundation, addresses current clinical issues whereby international masters of spine share their expertise and recommendations on a particular topic. The goal of the series is to contribute to an evolving, dynamic model of an evidence-based medicine approach to spine care.

All neurosurgeons, orthopedic surgeons, neuro-oncologists, and orthopedic oncologists specializing in spine, along with residents and fellows in these areas, will find this book to be an excellent guide that they will consult often in their treatment of patients with metastatic spine tumors.

Tumors of the Spinal Canal-Simon Hanft 2020-11-13 This book presents a focused, case-oriented approach to a specific disease entity: tumors located within the spinal canal. Each tumor type constitutes its own chapter and additional chapters focus on more novel trends in the field, such as radiosurgery and minimally invasive surgical techniques. In each chapter, the authors provide expert opinions on preoperative goals, intraoperative techniques and decision-making, and postoperative paradigms, including surveillance guidelines and thresholds for initiating adjuvant therapy. The management of intradural tumors has become increasingly interdisciplinary, and one of the major goals of

this text is to familiarize the treating neurosurgeon with the latest advances in both operative and non-operative strategies. The text seeks to answer two questions: 1) what are the detailed surgical steps taken by these neurosurgeons to ensure safe maximal resection of these tumors? and 2) in cases of residual and recurrent disease, what are the most effective management options? Consensus regarding definitive management remains difficult to reach given the overall rarity of these tumors. Tumors of the Spinal Canal is ultimately a practical reference drawn from the experiences of its individual authors, a compendium of surgical pearls, pitfalls, and preferences, all steeped in the most recent and relevant literature on the subject.

Cancer in the Spine-Robert F. McLain
2008-08-17 Distinguished physicians and researchers from prestigious Cancer Centers around the world offer their expertise in current and innovative management of cancer in the

spine. These authors bring together the latest thinking from diverse fields of medicine to provide, in one volume, a guide to coordinated management of all aspects of spinal tumors covering chemo- and radiation therapy, pain management, diagnostic radiology, as well as reconstructive surgery and palliative care. Highlights include management of vertebral metastases, innovations in radiotherapy, treatment of pathological fractures, curative strategies for primary malignancies, as well as a guide to pain management and end-of-life care.

Surgery of the spine and spinal cord-Charles Harrison Frazier 1918

The Cervical Spine-Edward C. Benzel
2012-08-29 The Cervical Spine is the most comprehensive, current, and authoritative reference on the cervical spine. Prepared by internationally recognized members of The Cervical Spine Research Society Editorial

Committee, the Fifth Edition presents new information, new technologies, and advances in clinical decision making. The text provides state-of-the-art coverage of basic and clinical research, diagnostic methods, and medical and surgical treatments, bringing together the latest thinking of the foremost orthopaedic surgeons, neurosurgeons, neurologists, rheumatologists, radiologists, anatomists, and bioengineers. Chapters cover anatomy, physiology, biomechanics, neurologic and functional evaluation, and radiographic evaluation and address the full range of pediatric problems, fractures, spinal cord injuries, tumors, infections, inflammatory conditions, degenerative disorders, and complications. Accompanying the text is a website with the fully searchable text plus a color image bank.

Handbook of Clinical Neurology- 1975

Handbook of Clinical Neurology-P.J. Vinken

1969

Tumors of the Brain and Spine (2007)-

Regenerative Biology of the Spine and Spinal Cord-Rahul Jandial 2013-04-13 Editors hope that Regenerative Biology of the Spine and Spinal Cord appeals to the nostalgic sentiments of investigators and intellectuals in that it can be held in hand and provide a broad survey of leading edge science. At the same time its chapters can be digitally acquired for those established in the field to refine particular knowledge interests or gaps. Most importantly, we ask the reader, whomever that may be, to peruse without prejudice as countless more chapters will have been written before total spinal regeneration is achieved.

Tumors-Louis Jeanmart 2012-12-06 With contributions by numerous experts

Topics in Spine Imaging, An Issue of Radiologic Clinics of North America, Ebook-

Lubdha M. Shah 2019-02-01 This issue of Radiologic Clinics of North America focuses on The Spine, and is edited by Dr. Lubdha M. Shah. Articles will include: Pearls and Pitfalls in Spine Imaging; Traumatic Spinal Cord; Vascular Disorders of the Spine; Approach to (acute, subacute, chronic) Myelopathy; Acute Low Back

Pain; Spinal Manifestations of Systemic Disease; Intraspinal Tumors; Spinal Osseous Tumors and Oncology; Spinal Marrow Imaging: Clues to Disease; Postoperative Spine: What the Surgeons Wants to Know; Beyond the Spinal Canal; CSF Leak in Spontaneous Intracranial Hypotension: Diagnosis and Intervention; and more!