

La Neuronavigazione Atti Del Convegno Nazionale Sulla Neuronavigazione

Incidence of invasive fungal sinusitis has been increasing over the years. The understanding of its pathophysiology has improved with newer serological tests and diagnostic methods helping in earlier diagnosis and reducing patient morbidity. It was believed earlier that invasive fungal sinusitis is seen only in immune compromised patients but clinical reports suggest otherwise. More anti-fungal drugs are being added to improve incidence of patient survival. This book aims to compile all practical information about invasive fungal sinusitis into a single volume. Therefore, busy clinicians would not have to perform exhaustive literature studies to diagnose invasive fungal sinusitis. The book aims to provide an overview of diseases which could be mistaken for invasive fungal sinusitis and discuss how the management is different. Book sections consist of clinical, microbiological, serological, pathological, radiological and pharmacological features of the disease and its management. Each section is important in today's context as it dynamically alters the management of the patient. Early clinical suspicion and rapid microbiological, pathological and radiological diagnosis with aggressive treatment with surgical debridement and medical therapy leads to favorable outcomes.

International experts present in this volume advances in reconstructive neurosurgery focusing on the fields of neurotrauma and neurodegenerative disorders. The highlights include building an international strategy for risk reduction, documenting a multidisciplinary approach towards restoration of function in paraplegic spinal cord-injured patients, describing a new approach for statistical analysis in traumatic brain injury trials, describing blood flow changes in diffuse brain injury, discussing rehabilitation programs in Germany following acute brain injury, describing research data from Taiwan on neurotrauma, showing the neuropsychiatric effects from deep brain stimulation for movement disorders, defining the role played by imaging for deep brain stimulation targeting in mental illness, using radiosurgery in decompression in the treatment of trigeminal neuralgia, describing the development of radiosurgery from brain to the spine, listing new transgenic animal models of Parkinson's disease, discussing gene therapy for neuropathic pain and Parkinson's disease, and finally, discussing constrained-induced movement therapy for stroke patients, and endovascular therapy for cerebrovenous disorders.

The dawn of neurosurgery can be traced back to the first description preserved in the Edwin Smith papyrus' (3000 Be) which dealt with head and spinal injury. In the course of 5000 years, since the first record in Egypt, advances in lifestyle and technology have brought about our modern civilized society. However, as a result of civilization, currently the total number of severe head injuries worldwide is believed to exceed 10000000 and the number of severe spinal injuries is believed to be more than 75 000 each year. This means that central nervous system injury is not only the oldest topic in neurosurgery, but that it is also of critical importance in modern life. Taking these problems into consideration, the International Neurotraumatology Committee was organized in 1965 as an affiliated Committee of the World Federation of Neurosurgical Societies. The first scientific meeting was convened by the Committee in Marseilles in 1970. Nine further meetings were subsequently held, in Europe, Africa, and South America. The meeting was first named "International Conference on Recent Advances in Neurotraumatology" (ICRAN) by Professor Phillip Harris, when the scientific meeting was held in Edinburgh in 1982. The tenth meeting, (ICRAN 1992), the first one in Asia, was held at Karuizawa, Japan, from September 23rd to 26th, 1992.

Transsphenoidal Surgery, by Drs. Laws and Lanzino, captures all of today's clinical knowledge on the multidisciplinary management of pituitary tumors, with a focus on surgical techniques. Acclaimed international experts bring you detailed guidance on natural history, radiologic and clinical aspects, surgical indications, and resection techniques. What's more, case presentations and clinical photographs help you reduce the risk of error and advance your own surgical skills. At expertconsult.com, you'll have online access to the full text plus streaming videos of key procedures to help you provide the best possible outcomes for every patient. Access the fully searchable text online at expertconsult.com and view hours of videos in which experts demonstrate how to perform key procedures. Refine your skills through discussions of intraoperative imaging, new techniques in transsphenoidal surgery, new microsurgical procedures, radiosurgical techniques, and more. Get balanced and comprehensive perspectives on pituitary surgery from well-recognized international, multidisciplinary contributors. Make better-informed decisions with case presentations, drawn from Dr. Laws's 40 plus years as a leader in pituitary surgery, that include a summary of the clinical history, preoperative radiographs, and postoperative clinical information and radiographs. Tap into exceptional visual guidance and reduce the risk of error through abundant clinical photographs, line drawings, and procedural videos. Find the information you need quickly via a consistent chapter-to-chapter organization. Reduce the risk of error by watching the experts

Calvarial and Dural Reconstruction provides the practitioner with a synthesis of the existing broad knowledge about calvarial reconstruction -- all in a single volume. The book contains straightforward descriptions of the management of a variety of calvarial and dural defects, both congenital and traumatic. Calvarial and Dural Reconstruction includes: A review of the colorful history of calvarial reconstruction Comprehensive coverage of the newer cranioplasty materials used in calvarial procedures Illustrations and text describing reconstruction complex procedures, including the frontal sinus fracture, the floor of the anterior cranial fossa, and posttraumatic and post-operative skull defects In-depth discussion of various forms of synostosis, including indications, risks and complications (Distributed by Thieme for the American Association of Neurological Surgeons)

During a common cold a child has secretions in the nasal meatuses and in the maxillary sinuses, in which case the term rhinosinusitis is used. Rhinosinusitis often resolves without treatment. Acute maxillary sinusitis can be suspected if a child still has purulent rhinitis, headache and a cough 10–14 days after a viral respiratory infection, especially if the symptoms worsen after an initial phase of recovery. The diagnosis of maxillary sinusitis is clinical. The drug of choice is amoxicillin. Saline nasal drops can be safely used. Sinusitis leads to complications more often in children than in adults. Swelling of the eyelids or cheek is a warning sign.

Drawing on more than 30 years of clinical experience, the author presents an integrated esthetic and functional approach to the treatment of dentofacial anomalies. From the initial planning through the orthodontic and surgical stages and finally to the postoperative phase. The accompanying DVD contains video footage of the treatment of an actual patient from start to finish, following the integrated approach presented in the book and with specific emphasis on surgical aspects.

Proceedings of the International Conference held as Part of the Menarini Series on Cardiovascular Diseases in Berlin, Germany, February 27-28, 1998

Neuromonitoring is the tool of trade in intensive care, and should incorporate cutting edge technology with patience, repeated clinical observation, careful identification of neuroworsening. The aim of the book is to be of practical use, and to assist the clinical practice of the busy physician. The clinical examination belongs to the introductory section of the book, and an abundance of

technology, with specific emphasis on the importance of intracranial pressure, comes in the following parts. Since the patient with an injured brain can have chances only if other organs and systems (as the lungs, and the acid-base equilibrium etc.) are preserved, a section of the book covers the interactions between the affected brain and other organs. The way the brain reacts to different insults has common aspects, as inflammatory responses, edema etc., but also specific features. Sections five to nine summarize the most relevant pathologies, from ischemic to hemorrhagic lesions, trauma, tumors etc. and also mentions new comers, as the specific problems related to the expanding field of neuroradiological interventions. Finally, neurointensive care does not exist without knowledgeable nurses. The intracranial pressure measurement starts (or unfortunately ends) with a catheter well maintained, and that becomes vital when the drainage of hydrocephalus is concerned. Dealing with patients with severe brain damage has plenty of ethical implications, up to the problems related to brain death and organ donation. This book is published in two volumes.

The management of vascular and tumorous lesions of the parasellar region still remains one of the most demanding tasks in neurosurgery. It is only a short time ago that the major concepts of the anatomy of the so-called cavernous sinus were described in detail. Surgical interventions in this region are very complex, they are time-consuming and require an extensive background of experience in surgery of the cranial base. Pioneer anatomical studies of the parasellar region done by Taptas, and the daring direct operative approach introduced by Parkinson promoted the development of modern neuroradiological intervention procedures, which were initiated by Serbinenko and further refined by Debrun, Vifiuela and others. The technique of the detachable balloon catheter stimulated surgeons to proceed with the direct operative approach to lesions of the parasellar region. Today, it is hard to imagine a successful management of vascular pathologies of this region without a complementary use of the two techniques.

This volume presents the latest trends in the management of pediatric cataract. It covers everything from the role of genetic and systemic work-up to the state of the art in surgery. Discussions include ocular modifications after surgery, the incidence and risk factors of post-surgery complications, and the management of complex cases. There is a chapter dedicated to post-aphakic glaucoma, a new insight to visual rehabilitation, and a summary of a recently published Delphi project. Pediatric ophthalmologists looking for the latest research in the management of cataract will find this publication to be invaluable reading. It will also be useful to general ophthalmologists, residents, and fellows, as well as to medical students and pediatricians who seek an update for daily clinical practice.

La neuronavigazione. Atti del Convegno nazionale sulla neuronavigazione Bibliografia nazionale italiana Reconstructive Neurosurgery Springer Science & Business Media

A guide to the use of transcranial magnetic stimulation to reversibly disrupt cortical functioning as a means of studying perceptual and cognitive functions.

At last, here is a comprehensive compilation of the accumulated knowledge on PET and PET/CT in oncology. It covers the entire spectrum from solidly documented indications, such as staging and monitoring of lung and colorectal cancer, to the application of PET/CT in head and neck surgery, gynecology, radiation therapy, urology, pediatrics and others. The chapters are supplemented by an introduction into the underlying techniques of both imaging devices and radiopharmacy.

Minimally Invasive Spine Surgery combines up-to-date research on surgical techniques with high-definition surgical video and concise algorithmic evidence. Each of its sixteen chapters begins with a brief summary followed by imaging indications, instrumentation, a step-by-step surgical technique (and video guide), as well as the potential complications and adverse outcomes that may develop. Techniques discussed in the text include: Posterior Cervical Foraminotomy; Percutaneous Posterior Pedicle Screw Placement; Lumbar Discectomy; Transforaminal Lumbar Interbody Fusion (TLIF); Lateral Lumbar Interbody Fusion (LLIF). Also included is a discussion on the types of implants and instrumentation available today and the potential advantages they offer, making Minimally Invasive Spine Surgery an essential and relevant book for orthopaedic and neurosurgeons. Key Points Authored by experts from Rush University Medical Centre and Thomas Jefferson University Hospital in the United States Includes DVD to enhance clinical instruction 273 full colour illustrations

This book describes the development of systems of magnetic resonance imaging using the higher magnetic field strength of 3 tesla, in comparison to the current gold standard of 1.5 tesla. These new systems of MRI make it possible to perform with high spatial, temporal and contrast resolution not only morphological examinations but also functional studies on spectroscopy, diffusion, perfusion, and cortical activation, thus helping research and providing an important tool for routine diagnostic activity. At the same time the new systems offer unparalleled sensitivity and specificity in the numerous conditions of neuroradiological interest.

Developments in teleradiology are progressing at great speed. As a consequence, there is a need for a broad overview of the field. This first-ever book on teleradiology is presented in such a way that it should make it accessible to anyone, independent of their knowledge of technology. The text is designed to be used by all professionals, including radiologists, surgeons, nurses and allied health professionals, and computer scientists. In a very short time, driven by technical developments, the field of teleradiology has become too extensive to be covered by only a small number of experts. Therefore, Teleradiology has been written with chapter contributions from a host of renowned international authorities in teleradiology (see the Contents and the Contributors). This ensures that the subject matter focusing on recent advances in teleradiology is truly up to date. Our guiding hope during this task was that as editors of multiple chapters we could still write with a single voice and keep the content coherent and simple. We hope that the clarity of this book makes up for any limitations in its comprehensiveness.

In 1632, the Emperor of Hindustan, consumed by grief over the death of his wife, Mumtaz Mahal, ordered the building of a grand mausoleum to symbolize the greatness of their love. Against scenes of unimaginable wealth and power, there were murderous sibling rivalries and cruel despotism. In *Beneath a Marble Sky*, Princess Jahanara tells the story of how the Taj Mahal came to be, and describes her own life as an agent in its creation and as a witness to the fateful events surrounding its completion. As a princess and a mother, a sister and a daughter, Jahanara faces impossible choices and

discovers the real meaning of her regal birthright.

Palliative surgery can greatly contribute to improving symptom control and quality of life for terminal cancer patients. Owing to the advanced stage of the disease, however, this type of surgery is also associated with significant morbidity and mortality. It is therefore important for surgeons to have a sound understanding of the medical and scientific background underlying treatment decisions in palliative surgery, a foundation that this book provides. The opening chapters examine the relationship between palliative medicine and palliative surgery and address general issues including pain management and anesthesiological considerations. The role of palliative surgery in a wide range of disease settings is then thoroughly explored, including detailed information on surgical techniques and their indications and outcomes. This book will be an invaluable resource for all who wish to learn more about the emerging role of palliative surgery.

As a result of technological improvements, neuroendoscopy is now used in the treatment of many more patients, enabling the performance of previously unavailable operations with low complication rates and rapid patient recovery. This book presents the distilled experience of world experts in this evolving field. Current applications in a wide variety of settings are explained in detail and likely future developments are identified. In addition, the available neuroendoscopic instruments are reviewed and the results of international trials and collaborative studies, presented. This book will fully acquaint the reader with the breadth and depth of available neuroendoscopy techniques and their impressive therapeutic potential. It should serve as the reference book on neuroendoscopy for the next 10 years.

The Fruits of Reinvention Surgery related to the human head, its compartment and contents has been reinvented over the past 40 years. A number of instruments, most notably the sophisticated medical imaging device and the operating microscope, have principally fueled this evolution. Along the way, endoscopy and sophisticated navigation capabilities have added to the realization of a unique comprehension of normal and abnormal microanatomy permitting corridors and manipulations that allow novel strategies for surgery in these highly vital functional areas. Cappabianca, Califano and Iaconetta have created a detailed and fully modern review of methods and strategies related to complex surgery and therapies associated with this robust reinvention. Technical innovations abound! Distinguished practitioners of these unique developments in the history of surgical - terprise present these amazing technical exercises. The catalog of these approaches, instrumentation, techniques, strategies and manipulations is inspiring and stands as a testimony to the remarkable progress that we have witnessed in recent decades. The presentation in truly "modern" and represents in many aspects pinnacles of operative achievement. We must ask ourselves, what will be next? Los Angeles, November 2009 Michael L.J. Apuzzo, M.D., Ph.D (hon) Preface We belong to a lucky and happy generation, living during a period of many dramatic, if not revolutionary, technical and technological innovations, such as the digital era, which have changed and improved our routine surgical practice, together with the quality and quantity of life of our patients.

Covering the spectrum of spinal deformity that occurs between birth and 10 years, early onset scoliosis (EOS) is an evolving specialty that faces unique challenges, especially in controlling the progression of the condition while allowing the growth of the developing spine, lungs and thorax. This important book was inspired by the inaugural early onset scoliosis meeting of spine surgeons and other medical professionals in Christ Church, Oxford, UK, in September 2011. It provides a complete picture of the field today, with topics ranging from spinal development and genetics to advances in medical management to breakthrough surgical techniques that offer promising new options for young patients. Special Features Provides practical, evidence-based solutions to managing the full range of congenital, idiopathic, neuromuscular and syndromic conditions that present in early onset scoliosis Describes pioneering surgical procedures, such as non-invasive, magnetically controlled growing rod systems that reduce the number of repetitive surgeries and hospitalizations Explores such complex topics as surgical strategies for sitting comfort and features of optimal heelchair seating Details treatments and outcome measures in diverse, multi-system disorders, such as early onset neuromuscular scoliosis Highlights perioperative care and the vital role of physiotherapy in children with EOS Introduces an EOS questionnaire that establishes validated, patient-reported data for outcome assessment Recognizing the importance of the multidisciplinary team approach in effective management, Early Onset Scoliosis offers the valuable international perspective of many leaders in the field. It is essential for orthopedic and pediatric surgeons, residents and trainees, who will use the book to develop a clear understanding of what EOS is, how it is best treated, and the principles that underlie effective clinical decision-making in these complex cases.

During the last decades, research on spinal cord has attracted a great deal of attention because of problems such as sensory-motor and autonomic dysfunctions associated with traumatic and other injuries. Recording of spinal cord evoked potentials is one of the most promising approaches to understand the spinal cord function. However, the details of the evoked potentials and their significance in various pathological conditions are not yet fully characterized. This book summarizes new findings in the field of electrophysiology and relates this knowledge to pathology and regeneration research. It is the first one which deals in great detail with various ways to monitor spinal cord function in experimental and clinical situations. It provides an up-to-date knowledge regarding spinal cord bioelectrical activity and its modification with pharmacological agents and covers new aspects of regeneration studies, particularly the role of myelin associated inhibitory molecules. A section is devoted to clinical studies dealing with electrical activity, pathology, and current therapeutic measures. This volume will be useful both to basic and clinical neuroscientists engaged in the field of neurology, neurophysiology, neurochemistry, neurosurgery, neuropathology, and related disciplines in order to understand basic functions of the spinal cord and to stimulate further research in this rapidly advancing field.

This book provides an introduction to Dual Source Computed Tomography (DSCT) technology and to the basics of contrast media administration. This is followed by 25 in-depth clinical scan and contrast media injection protocols.

This comprehensive, up-to-date reference on surgery in the neonate presents and explains the latest developments in

the diagnosis and treatment of neonatal malformations and surgical pathologies. The coverage includes conditions involving the head and neck and the chest, disorders of the liver and biliary tract, gastrointestinal disorders, genitourinary conditions and malformations, anterior abdominal wall defects, tumors, and various other pathologies. For each condition, the pathogenesis and the most current and innovative surgical, and also medical, approaches are described with the aid of numerous illustrations. Minimally invasive strategies receive particular attention, and tips and tricks that will be of value in clinical practice are highlighted. The book includes a general part covering topics such as embryology, anatomy, prenatal diagnosis, and anesthesia and also provides detailed advice on pre- and postoperative care, with special consideration of nutritional problems. Neonatal Surgery will serve as an excellent guide for all pediatric and neonatal surgeons, whether in training or experienced

No other book on the market today can match the 30-year success of Halliday, Resnick and Walker's Fundamentals of Physics! In a breezy, easy-to-understand style the book offers a solid understanding of fundamental physics concepts, and helps readers apply this conceptual understanding to quantitative problem solving. This book offers a unique combination of authoritative content and stimulating applications. Before you buy, make sure you are getting the best value and all the learning tools you'll need to succeed in your course. If your professor requires eGrade Plus, you can purchase it now at no additional cost. With this special eGrade Plus package you get the new text--no highlighting, no missing pages, no food stains -- and a registration code to eGrade Plus, a suite of effective learning tools to help you get a better grade. All this, in one convenient package! eGrade Plus gives you: A complete online version of the textbook Embedded keyword links to important terms for each chapter 200 Interactive LearningWare problems, which focus on developing problem-solving skills Physics Mathskills, which reviews key mathematical concepts 50 interactive simulations The Student Study Guide Web links to related physics sites And More! eGrade Plus is a powerful online tool that provides students with an integrated suite of teaching and learning resources and an online version of the text in one easy-to-use website.

This volume will look at the history of trepanation, the identification of skulls, the tools used to make the cranial openings, and theories as to why trepanation might have been performed many thousands of years ago.

A summary of the most recent and effective techniques for treating difficult functional problems and painful situations using minimally invasive spinal surgery techniques. Including an up-to-date review of the physiopathology of the diseases.

This volume, part of the second edition of the classic Neurosurgical Operative Atlas series, presents the latest techniques for managing the full range of spinal and peripheral nerve problems. Each chapter addresses a different surgical procedure, guiding the reader through patient selection, preoperative preparation, anesthetic techniques, patient monitoring, and surgical techniques and outcomes. The authors also discuss common complications and offer tips for how to avoid and manage them. Spine and Peripheral Nerves is ideal for residents to study and for established surgeons seeking a quick refresher in preparation for surgery. Neurosurgeons, orthopedists, and plastic surgeons will benefit from the wealth of information provided in this up-to-date clinical reference. Highlights: Renowned experts in the field share their clinical insights and extensive experience Concise, step-by-step descriptions enable the reader to rapidly review techniques More than 750 illustrations and images demonstrate key concepts Organized by anatomical location to aid quick reference Series description: The American Association of Neurological Surgeons and Thieme have collaborated to produce the second edition of the acclaimed Neurosurgical Operative Atlas series. Edited by leading experts in the field, the series covers the entire spectrum of neurosurgery in five volumes. In addition to Spine and Peripheral Nerves, the series also features: Neuro-Oncology, edited by Behnam Badie Vascular Neurosurgery, edited by R. Loch Macdonald Functional Neurosurgery, edited by Philip Starr, Nicholas M. Barbaro, and Paul Larson Pediatric Neurosurgery, edited by James Tait Goodrich

In Cerebral Revascularization: Microsurgical and Endovascular Techniques, renowned surgical experts combine their expertise to provide the most current and comprehensive coverage of open brain bypass and endovascular options currently available. A detailed introduction familiarizes readers with the various indications for these technically demanding procedures. Concise chapters then supply thorough coverage of surgical strategies, complications, and outcomes using case examples from the authors' own collections to help prepare readers for surgery. Enhancing the text throughout, operative photographs and angiographic images clearly demonstrate the pre-, peri-, and postoperative management of ischemic stroke, giant aneurysms, and the spectrum of complex cerebrovascular diseases. Features Extensive coverage of extracranial-intracranial bypass and the latest in endovascular therapy 369 high-quality operative photographs and endovascular images illustrate key concepts A unique emphasis on the vital role perioperative care plays in optimizing patient outcomes Neurosurgeons, residents, and fellows will regularly refer to this definitive guide in both the operating room and the catheterization lab. It is also an indispensable resource for interventional radiologists, neurologists, vascular neurosurgeons, or for anyone who needs to learn more about these cutting-edge cerebral revascularization techniques.

This book, edited by a leading pioneer of craniofacial distraction, summarizes the progress achieved in the field in a way that will serve the needs of the practicing clinician. All components of the craniofacial anatomy are covered and all topics are discussed in depth: clinical and anatomic pathology, diagnostic studies, treatment protocols, preoperative planning (including the latest virtual programs), device selection, operating room technical considerations, postoperative management, and intermediate/long-term follow-up. Relevant and timely studies from the literature are cited. The book is excellently illustrated, with many patient photos, radiographs, and drawings. Craniofacial Distraction will be a superb, up-to-date resource for a wide range of practitioners, including maxillofacial surgeons, craniofacial surgeons, plastic surgeons, head and neck surgeons, pediatric surgeons, orthodontists, prosthodontists, and pedodontists.

It is by your own eyes and your ears and your own mind and (I may add) your own heart that you must observe and love Sir William Osler It has been just over 20 years that Hawke and Jahn's seminal book entitled Diseases of the Ear: Clinical and Pathologic Aspects was published. The book was unique from other textbooks in otology at the time and concentrated its message according to two well-known proverbs in English literature namely "A picture is worth a thousand words" and "Seeing is believing."

Dr. Masoud Motasaddi Zarandy has taken these twin concepts, and in the process, has produced a very beautiful and a visually pleasing book. The pictures and accompanying text allows the reader not only to see how different pathologies affect the inner ear but also to appreciate the clinical consequences that arise from our decision-making processes. Far from dry, the inner ear and skull base comes to life when we see the dynamics of how disease involves this complex and integral part of the body. For the uninitiated, this book takes us on a tour of the field that has evolved over the past decade into the formal discipline of neurotology/skull base medicine and surgery. It has quite rightly become a specialized branch of otolaryngology/neurosurgery where interdisciplinary collaboration has become the rule rather than the exception. Advances in imaging (including intraoperative stereotaxis), technology (i. e.

Over the past decade, minimally invasive techniques have developed rapidly and are widely applied in the management of spine disorders. With the development of enabling technologies, including specifically designed spinal retractor systems, intraoperative imaging and navigation technologies, and real-time neural monitoring, minimally invasive spine surgery (MISS) techniques are safe, effective and reproducible. Indeed, studies have confirmed the clinical and economic advantages of these procedures. Minimally Invasive Spine Surgery includes detailed discussions of enabling technologies, surgical techniques (including posterior decompression and fusion), approaches to specific diseases and conditions, as well as strategies to manage the unique risks and complications of MISS. Generously illustrated, this will be an essential reference for orthopedic surgeons, neurosurgeons and all health care professionals who treat the spine.

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