

## Neuro Surgery Stryker

Pediatric Neurosurgery identifies and describes the theoretic concepts of clinical and operative neurosurgery in the different ages of childhood, emphasizing both clinical and surgical principles. It presents a comprehensive body of pediatric clinicopathologic entities, elaborating upon the anatomical and physiological criteria which distinguish individual age categories. This book is unique in that it establishes an holistic approach to perceiving spatially the dimensions of the child vis-a-vis the surgeon and his team, the disarticulation of individual states of operative procedures and the grouping of procedures common to the treatment of different clinicopathological entities, the presentation of clinical parameters indicative of surgical treatment and essential to determining which techniques are preferable. The extensive use of artwork and operative photographs highlights the systematic description of general and specific surgical techniques as it integrates the clinical principles into guidelines for therapy.

Neurosurgery is a rapidly developing and technically demanding branch of surgery that requires a detailed knowledge of the basic neuro-sciences and a thorough clinical approach. The Oxford Textbook of Neurological Surgery is an up-to-date, objective and readable text that covers the full scope of neurosurgical practice. It is part of the Oxford Textbooks in Surgery series, edited by Professor Sir Peter Morris. The book is split into 20 overarching sections (Principles of Neurosurgery, Neuro-oncology of Intrinsic Tumours; Extra-axial Tumours and Skull Lesions; Cerebro-Pontine Angle Tumours; Sellar and Supra-Sellar Tumours; Posterior Fossa Tumours; Pineal tumours; Uncommon Tumours and Tumour Syndromes; Neurotrauma and Intensive Care; Vascular Neurosurgery; Principles of Spinal Surgery; Spinal Pathology; Spinal Trauma; Peripheral Nerve Surgery; Functional Neurosurgery; Epilepsy; Paediatric Neurosurgery; Neurosurgery for Cerebrospinal Fluid Disorders and Neurosurgical Infection). Each section takes a dual approach with, 'Generic Surgical Management' chapters that focus on specific clinical problems facing the neurosurgeon (e.g. sellar/supra-sellar tumour, Intradural Spina Tumours etc.) and 'Pathology-Specific' chapters (e.g. Glioma, Meningeal Tumours, Scoliosis and Spinal Deformity, Aneurysm etc.). Where appropriate, this division provides the reader with easily accessible information for both clinical problems which present in a regional fashion and specific pathologies. The generic chapters cover aspects such as operative approaches, neuroanatomy and nuances. Specifically each chapter in the book incorporates several strands. Firstly the fundamental neuroscience (anatomy, pathology, genetics etc.) that underlies the clinical practice. Secondly, a review of the requisite clinical investigations (e.g. angiography, electrodiagnostics, radiology). Thirdly, a thorough evidence based review of clinical practice. Following this a consideration of the key debates and controversies in the field with 'pro-' and 'con-' sections (e.g. minimally invasive spine surgery, microsurgical treatment of aneurysms) is provided. A summary of the key papers and clinical scales relevant to neurosurgery form the concluding part. The book is a 'one-stop' text for trainees and consultants in neurosurgery, residents, those preparing for sub-specialty exams and other professionals allied to surgery who need to gain an understanding of the field. It acts as both a point of reference to provide a focussed refresher for the experienced neurosurgeon as well as a trusted training resource.

This issue of the Neurosurgery Clinics, Guest Edited by Drs. Jian, Ames, and Shaffrey, presents updates and state-of-the-art approaches to spinal deformity surgery. Spine surgery is a timely topics amongst neurosurgeons, and one that is continually evolving. Articles in this issue include Radiographic and Clinical Evaluation of Adult Spinal Deformity; Use of Surgimap in Osteotomy Planning, Correction Calculation, and Reciprocal Changes; Adolescent Scoliosis Classification and Treatment; Osteotomy for Rigid Deformity; Coronal Realignment, Reduction Techniques, and Complication Avoidance; Cervical Deformity; High Grade Spondylolisthesis; Proximal Junctional Kyphosis; and The Role of Minimally Invasive Techniques in the Treatment of Adult Spinal Deformity.

The 2020 edition of the 100 Best Stocks series picks the top stocks for you to buy based on authors Peter Sander and Scott Bobo's value-investing philosophy, the same philosophy followed by Warren Buffett. Even though the economy is in constant flux, there are still plenty of opportunities for smart investors to make a profit. The 100 Best Stocks to Buy in 2020 demonstrates how to protect your money with stock picks that have consistently performed. In their easy-to-understand and highly practical language, authors Peter Sander and Scott Bobo clearly explain their value-investing philosophy, as well as offer low-volatility investing tips and advice to finding stocks that consistently perform and pay dividends. The 100 Best Stocks to Buy in 2020 is an essential guidebook for anyone looking to invest in today's market providing a proven source of solid, dependable advice you can take to the bank.

Neurosurgery is a rapidly developing field of medicine. Therefore, staying keeping track of the advancements in the field is paramount for trainees as well as fully trained neurosurgeons. This book, fully available online, is a part of our effort of improving availability of medical information for anyone who needs to keep up-to-date.

This book is an up-to-date, well-referenced practical resource that offers detailed guidance on the avoidance and management of complications in patients treated for cerebrovascular and spinal vascular disease. All complication avoidance and management techniques currently available to the endovascular/cerebrovascular surgeon are reviewed by pioneers and leaders in the field to provide the clinician with an advanced single point of reference on the subject. The book is divided into four sections. It opens by discussing general issues, such as definition of complications, medicolegal aspects, the role of resident training, and checklists. The subsequent three sections address the avoidance and management of complications when performing surgical, endovascular, and radiosurgical procedures, covering the full range of indications and potential adverse events. All chapters have a standardized format, simplifying the search for information on a specific disease process. Numerous intraoperative images are included, and, when appropriate, algorithms for the avoidance, early recognition, and management of complications are presented. Each chapter concludes with a checklist of preparatory steps and "emergency procedures" that each member of the team must perform in order to ensure the best possible outcomes.

Whatever you may say about Professor Samii, his take on neurosurgery cannot be ignored. In this book readers will find pieces that express the philosophy of the most well-known 'Neurosurgical School'. International experts present Professor Samii's teaching and philosophy in dealing with the most difficult neurosurgical pathologies as well as future developments. Basic concepts in neurosurgical sciences, modern surgical techniques and cutting-edge technology are presented in detail.

Because the base of the skull has proven to be one of the most challenging regions of the body to access, treatment options were once limited for patients with tumors or lesions in this area.? However, with

recent advancements and breakthroughs in treatment, patients with skull base tumors now have an array of surgical options that can help them return to leading a normal and active life. The Endoscopic Endonasal Approach (EEA) is an innovative surgical technique used to remove brain tumors and lesions-some as large as softballs-all through the nose.

This issue serves as a high-level topic review and keeps the readers updated on current and future neurointervention directions.

Since its introduction about sixty years ago, stereotactic and functional neurosurgery has evolved into a fascinating and interdisciplinary endeavor that combines modern neurosurgery, neurobiology, and neuroimaging with innovative diagnostic and treatment strategies. In this collection, acknowledged experts from Europe and North and South America present their scientific and clinical experience in stereotactic and functional neurosurgery for movement disorders and brain tumors. The contributions present a wide range from the beginnings of human stereotactic neurosurgery to the most modern molecular and restorative strategies to treat diseases of the human nervous system. They clearly demonstrate that the discipline is still young and dynamic with alternative and sometimes competing strategies whose evaluation is underway. They also document that operative lesioning techniques such as thalamotomies, though still chosen under certain circumstances, have been succeeded by novel neuromodulation techniques such as deep brain stimulation in the great majority of clinical cases.

This concise, easy-to-use book offers expert insights into current controversies in vascular neurosurgery with a view to providing the practitioner with authoritative practical guidance that will assist in the management of difficult disease entities. While vascular neurosurgery has undergone unprecedented advances during the past decade, enabling safer and easier access to previously untreatable pathology, this progress has been accompanied by confusion as to what constitutes best, or even acceptable, practice. Here, experts in the field discuss the various tools available and explain how best to use them when confronted by different pathologies, drawing upon their personal experience. Each chapter focuses on a specific case that is discussed by two experienced surgeons; a third author then evaluates the case, highlighting the available evidence and pearls in the treatment of that particular disease. The authors have been carefully chosen to provide a truly balanced viewpoint on paradigms that they themselves use. They therefore have a sound understanding of the thought processes of surgeons when dealing with challenging diseases for which there may be no single correct path. Furthermore, they are well placed to identify not only appropriate uses of new treatment options and technologies but also circumstances in which their use is best avoided. The ultimate benefactor of this book will be the patient: our biases as physicians should never become a patient's morbidity.

SAGE Sourcebook of Modern Biomedical Devices: Business Markets in the Global Environment is the first accessible, broadly available source of information that presents and quantifies the commercial success of numerous types of biomedical devices available in the global market. It is of great importance, for both the research and the business communities, to identify specific biomedical device types, per major therapeutic areas, most commercially successful in today's global economic markets, such as in the biggest market (U.S.), in the Pacific Rim, and in the newly expanded European Union. Currently, such vital information is not available anywhere else, definitely not in a unified source and not in a detailed, well-substantiated, reliable, and easy-to-read form.

Get step-by-step, expert guidance on fundamental procedures in neurosurgery. Core Techniques in Operative Neurosurgery, 2nd Edition, provides the tools needed to hone existing surgical skills and learn new techniques, helping you minimize risk and achieve optimal outcomes for every procedure. Led by Dr. Rahul Jandial, this concise reference offers quick access to the expertise and experience of the world's leading authorities in the field of neurosurgery. Presents consistent, easy-to-follow chapters that cover the indications and contraindications, pitfalls, tips and tricks from the experts, and more for each procedure. Covers minimally invasive spine techniques such as Thoracic Corpectomy and Minimally Invasive Direct Lateral Transposas Interbody Fusion. Includes new chapters on Microvascular Decompression and Brachial Plexus Injury Nerve Grafting and Transfers.

This book is a complete guide to intraoperative imaging in neurosurgery. Divided into eighteen sections, the text begins with an introduction to the history of neuroimaging and an overview of intraoperative imaging in neurosurgery. The following chapters discuss different types of intraoperative imaging techniques (magnetic resource imaging, computed tomography, ultrasound) and the use of each of these techniques during different surgical procedures, including epilepsy surgery, pituitary surgeries, skull base surgeries, cerebrovascular surgeries and more. A complete chapter is dedicated to multimodality imaging and the final chapter considers the future of navigation and intraoperative imaging. Intraoperative photographs and figures further enhance the comprehensive text. Key points Comprehensive guide to intraoperative imaging in neurosurgery Covers different types of imaging techniques (MRI, CT, Ultrasound) Complete chapter dedicated to multimodality imaging Includes intraoperative photographs and figures

Goodman's Neurosurgery Oral Board Review educates and prepares neurosurgery candidates who are studying for the Neurosurgery Oral Board exam, the final step prior to board certification. It also serves as a primer for the Goodman oral board course, a bi-annual course sponsored by the AANS. The book begins by initially describing the format of the oral board exam. It then examines some of the concepts and techniques in the question-answer process that forms the major premise of the oral board exam. Each chapter contains 4-7 case presentations, which are organized similarly to how oral board questions are presented, with a brief history / physical and relevant imaging studies. The authors provide detailed analysis of these cases, as well as key references for each case with the salient conclusions from each referenced paper. While there are a few books that cover the board exams, none of them are specifically designed as case-based resources for oral board exam preparation. Goodman's Neurosurgery Oral Board Review focuses specifically on the oral board exam, and has been updated for this new edition to reflect the most recent (post-2017) style board. This review is an ideal resource for neurosurgeons who are preparing for the oral board, and is also very appropriate for those who are trying to maintain competence in neurosurgery.

This issue of Neurosurgery Clinics, guest edited by Dr. Nathaniel P. Brooks and Dr. Michael Y. Wang, is devoted to New Technologies in Spine Surgery. Articles in this issue include: Endoscopic Lumbar Discectomy, Endoscopic Cervical Foraminotomy, Endoscopic Lumbar Interbody Fusion, Endoscopic Lumbar Decompression, Lateral Lumbar Interbody Fusion, Retropleural Thoracic Approach, Novel Intervertebral Technologies, Surface Technologies for Fusion, Cell derived/Stem Cell Technologies for Fusion, Disk Replacement, Enhanced Recovery in Spine Surgery/Perioperative pain management, Imaging Technologies, Robotic Instrumentation Placement, Minimally Invasive Deformity Advances, Tissue Engineering/Regenerative Treatments, Minimally Invasive Tumor Ablation, and more.

A state-of-the-art neurovascular surgery atlas from internationally renowned neurosurgeon R. Loch Macdonald Neurosurgical Operative Atlas: Vascular Neurosurgery, Third Edition, by R. Loch Macdonald and expert contributors, reflects the latest advances in endoscopic, endovascular, microsurgical, and bypass techniques used in the treatment of cerebrovascular disease. The entire atlas has been streamlined and updated with new content, including 38 videos that complement the concise step-by-step guidance in the text. The book begins with five chapters on vascular and microsurgical instrumentation and equipment, clipping versus coiling, aneurysm surgery techniques, the pterional approach, and minimally invasive approaches. Disease and procedure-specific chapters are organized by three sections: aneurysms and subarachnoid hemorrhage, vascular malformations, and ischemic and other cerebrovascular disease. Every chapter includes salient tips on patient selection and procedural indications, preoperative information and tests, patient positioning, operative nuances, and postoperative complications. Key Highlights Nearly 300 high-quality color illustrations detail impacted anatomy and procedures The latest techniques for treating a full spectrum of aneurysms, such as ophthalmic segment, supraclinoid internal carotid artery, middle and anterior cerebral artery, basilar and posterior cerebral

artery, and others Treatment of vascular abnormalities including arteriovenous malformations, superficial and brainstem cavernous malformations, arteriovenous fistulae, Moyamoya disease, and more Neurosurgical residents will benefit from the firsthand knowledge shared by international masters, while veteran neurosurgeons will glean invaluable insights on cutting-edge endovascular techniques to enhance clinical practice.

Stroke is thought to be the second biggest killer worldwide, and is responsible for over 5 million deaths per year. Several strategies have been developed to enhance treatment of stroke patients. Multimodal neuroimaging allows physicians to diagnose and evaluate not only the ischemic core but also the vessel pattern and collateral status. Stroke Treatment involves extensive intravenous drug administration. Several new drugs with long lasting efficacy are now being tested in randomized clinical trials. In this context, endovascular treatment is a promising avenue that allows physicians to treat patients in extended time windows especially patients in whom intravenous RTPA has failed. A new era has emerged with new devices called stent retrievers and aspiration techniques, which have demonstrated higher rates of recanalization and clear superiority over previous devices employed in RCTs. The third volume of Frontiers in Neurosurgery presents updated information on ischemic stroke treatment. The volume comprehensively covers the epidemiology, physiology, diagnosis and treatment modalities of stroke. Readers will also find key information on diagnosing and treating rare and lesser known causes of stroke as well as notes about new devices and medical procedures to combat ischemic stroke. This volume is a useful resource for neurosurgery specialists as well as nurses, physiotherapists and caregivers.

PROJECT GBA&C - Gallery for Books on Arts & Culture recognizes and celebrates the accomplishments of world's renowned artists who have made, and are making, significant contributions in the field of art, producing powerful imagery that continues to captivate, educate, inspire and heal humanity. " Art Exhibit Repository " is one such initiative showcasing the best moments captured by artists across the globe, encapsulating the sheer joy of subtle self-expression behind every art. Editors Panel

The future of neurosurgery will be characterized by less invasive, molecular technologies that promise to revolutionize the field of neurosurgery and impact the treatment of additional neurological disorders, including neurometabolic diseases, stroke, dementias, affective and psychiatric diseases, movement disorders, epilepsy, and others. This book encompasses developing an understanding of the principles underlying the advent of novel molecular approaches to neurological and neurosurgical diseases. It Identifies key principles that will allow dramatic improvement in the treatment and outcomes of patients suffering from a variety of disorders affecting the central nervous system and spinal axis. This volume gives neurosurgeons an excellent understanding of the development of novel molecular and cellular technologies that will markedly change the way neurosurgery is practiced in the near future. It is also of special interest to neurologists, psychiatrists, physiatrists, spinal orthopaedic surgeons, neurobiologists and gene therapy research scientists.

Neurointervention is a fast-growing subspecialty, and recent trials have demonstrated its role in ischaemic and haemorrhagic stroke. This has generated tremendous interest among interventional neuroradiology, neurology and neurosurgery communities. Nevertheless, formal teaching programmes that provide the required experience are limited, and many early career practitioners are not exposed to the crucial technical details essential to safely performing the procedure before they start practising independently. The book presents 100 characteristic case studies to illustrate the salient technical and clinical issues in decision-making and problem solving during the procedure. This book conveys the "real-world" issues and solutions that are not addressed in detail in most books. As such it is a practical teaching book with useful "tips and tricks" on how to handle specific challenging situations, and is particularly useful for fellows in neurointervention training programmes..

The book is devoted to the neurosurgical management of spasticity. Starting with a chapter on the anatomical and physiological foundations of spasticity and a short history of its neurosurgical treatment, it describes the neurosurgical methods currently available. As management differs between adults and children, the book is also structured accordingly, including evaluation, decision-making, Intrathecal Baclofen Therapy (ITB), botulinum toxin therapy and surgery. Beyond ITB, the neurosurgical options covered include procedures focusing on the peripheral nerves, dorsal roots, Dorsal Root Entry Zone and spinal cord. Based on surgical experience collected with more than a thousand patients, the book gathers the most important aspects of our present understanding, presented using a practical, educational approach. It stresses the importance of a multidisciplinary approach, including neurologists, pediatricians and rehabilitation specialists. Close collaboration with other surgical disciplines like orthopedic surgery and neuro-urology are also outlined.

Neurosurgery Editor in Chief, John Boyd Coates, Jr.; Editors for Neurosurgery, R. Glen Spurling [and] Barnes Woodhall Medical Department Army: Surgery in World War II, Neurosurgery, V.2 Journal of Neurosurgery Spine Endovascular Management of Cerebrovascular Disease, An Issue of Neurosurgery Clinics of North America, Elsevier Health Sciences

THE DEFINING WORK IN NEUROSURGERY, REISSUED FOR A NEW GENERATION OF TECHNICAL EXCELLENCE Cranial Anatomy and Surgical Approaches is the master work of the legendary neurosurgeon Albert L. Rhoton, Jr. -- a distillation of 40 years of work to improve safety, accuracy, and gentleness in the medical specialty the author helped shape. Newly reissued and featuring more than 2000 full-color illustrations, this definitive text on the microsurgical anatomy of the brain remains an essential tool for the education and enrichment of neurosurgeons at any career stage. It fulfils its author's hopes to make, in his words, the "delicate, fateful, and awesome" procedures of neurosurgery more gentle, accurate, and safe. Across three sections, Cranial Anatomy and Surgical Approaches details the safest approaches to brain surgery, including: · Micro-operative techniques and instrument selection · Microsurgical anatomy and approaches to the supratentorial area and anterior cranial base, including chapters on aneurysms, the lateral and third ventricles, cavernous sinus and sella. · Anatomy and approaches to the posterior cranial fossa and posterior cranial base, including chapters on the fourth ventricle, tentorial incisura, foramen magnum, temporal bone, and jugular foramen · Supra- and infratentorial areas, including chapters on the cerebrum and cerebellum and their arteries and veins

Endovascular neurosurgery is a recently introduced but rapidly evolving medical field, which uses minimally invasive interventions to treat major life-threatening vascular lesions of the Central Nervous System. Although its history counts less than 15 years of worldwide acceptance, it has rapidly displaced the traditional open neurosurgical techniques, being nowadays the first treatment choice for brain aneurysms and vascular malformations. Thus, the experience of each neuroendovascular center and performer is invaluable, offering the base for learning and teaching the new generation of interventionalists as well as for the evolvement of the method itself. This book presents the basic principles of endovascular neurosurgery starting from clinical cases. Through this close-to-clinical-reality-process, the reader will be able to more thoroughly understand the pathophysiology of the brain and spine vascular lesions as well as the decision-making strategy, related to the indications, endovascular methods and results, finding suggestions and solutions to his/her clinical questions and problems. Besides chapters devoted to CNS vascular embryology and anatomy, clinical cases organized in groups based on the treated lesions are introduced: ruptured and unruptured cerebral aneurysms of the anterior and posterior circulation, side-wall and bifurcation aneurysms, arteriovenous malformations (AVM), dural arteriovenous fistulae (dAVF), arterial stenosis and angioplasty as well as spinal vascular lesions. A

separate chapter is devoted to the organization and necessary equipment of the angio room and the department offering neuroendovascular service. This volume will be of interest to neurosurgeons, interventional neuroradiologists, vascular surgeons, neurologists and ICU physicians as well as health care providers who are involved in the diagnosis and management of the vascular lesions of the brain and spine.

Operative Neurosurgery, Volume II, presents the major neurosurgical procedures involving the posterior fossa, spinal cord and peripheral nerves. As in Volume I, the text describes and the figures illustrate the step-by-step surgical technique. Emphasis is placed on anatomical topographic views of the operative exposure as seen by the surgeon. The contents have been arranged on the basis of anatomical location rather than etiology. Although this book is primarily based on the experience of the neurosurgical service at Walter Reed General Hospital, its content reflects only the views of the author and does not purport to reflect any official position of the Department of the Army or the Department of Defense. Volume II is available at this time because of the tireless efforts of my associate, Major GARY D. VANDERARK, Assistant Chief of Neurosurgery Service, Walter Reed General Hospital. His critical review and support in every aspect of this work are gratefully acknowledged. I also wish to thank Mr. HANS BRANDT of Heidelberg, Germany, who again has demonstrated his great talent in medical artistry. His enduring enthusiasm has also shortened the length of time necessary to prepare this volume. Throughout my military surgical career and especially in the preparation of this work, I have received the unceasing support and encouragement of Lt. Gen. LEONARD D. HEATON, Surgeon General of the U.S. Army. My thanks are extended to this master teacher and surgeon.

This book covers stereotactic principles as well as functional stereotaxis, covering the history and uses of the techniques, treatments for specific conditions, and future developments. Includes a DVD demonstrating surgical procedures.

This book covers all ethical aspects of introducing novel implants and procedures in neurosurgery in a structured way, addressing the current knowledge gap concerning ethical innovations in neurosurgery. Initially it explores the difficulties involved in defining when a procedure should be considered innovation, research, or care. To this end, it presents not only an overview of current literature, but also data from a recent survey among neurosurgeons in Europe. The book subsequently discusses the ethical issues related to innovation. These include: informed consent (what should a surgeon tell the patient and how should he/she do so), oversight (can any surgeon simply implant a novel spinal device?), the learning curve (when should a surgeon be allowed to perform a novel procedure?), vulnerable patients (how to innovate in the pediatric population or in an emergency setting), and conflicts of interest, as well as the ethics of paying for innovative treatments. In turn, the closing chapters focus on the evaluation of neurosurgical research and innovation. Are cultural changes necessary and how could innovation benefit from (international) collaborations? Given the range of topics addressed, the book offers neurosurgeons, residents, scientists, companies and hospital administrations a valuable guide to introducing novel implants and techniques in neurosurgery.

Ideal for both neurosurgical residents and recertifying neurosurgeons, Neurosurgery Self-Assessment: Questions and Answers offers the most comprehensive, up to date coverage available. Over 1,000 clinically relevant multiple-choice questions across 46 topic areas test the candidate's knowledge of basic neuroscience and neurosurgical subspecialties to an unparalleled degree and provide detailed answer explanations to facilitate learning and assessment. Over 700 histology, pathology, radiology, clinical and anatomical images serve as an index of routinely tested-on images in neurosurgical examinations with high-yield summaries of each pathology to reinforce and simplify key concepts. Includes only multiple choice questions in both single-best-answer and extended matching item (10-20 options) format increasingly adopted by neurosurgery certification boards worldwide. Questions are organized by topic and classified by degree of difficulty through a highly visual "traffic light system" which codes each question in green, amber, or red. Includes coverage of the landmark studies in areas such as vascular, stroke, spine and neurooncology. Practical tips facilitate study with test-taking strategies and things to consider before sitting for an exam. Utilizes Imperial and SI units throughout.

Certification from the American Board of Neurological Surgeons (ABNS) is the gold standard for certification of neurosurgeons practicing in the U.S. This text is the most up-to-date board review guide for neurosurgeons. It features actual cases, over 300 high-quality illustrations and images, clinical overviews, and a Q and A that mimics the ABNS exam format. Uniquely qualified as esteemed experts in organized neurosurgery as well as past or present Directors of the ABNS, the editors have compiled a book of remarkable depth and scope. With contributions from top neurosurgeons in each subspecialty, this text will prepare neurosurgeons for the rigorous ABNS exams. This indispensable book will help neurosurgeons and neurosurgical residents prepare thoroughly for written and oral board examinations, and benefit board-certified neurosurgeons who need to fulfill MOC requirements. Thieme eNeurosurgery is the world's most comprehensive neurosurgical resource online. For a free trial, go to: <http://thieme.com/eneurotrial>

This issue of Neurosurgery Clinics, guest edited by Dr. Domagoj Coric, provides an Update on Motion Preservation Technologies. This issue is one of four selected each year by our series consulting editors, Drs. Russell R. Lonser and Daniel K. Resnick. This issue discusses state-of-the-art indications, technique, devices, complications and evidence basis for motion preserving technologies in the cervical and lumbar spines. Topics covered in this issue will include: Cervical Total Disc Replacement: Indications and Technique, Cervical Total Disc Replacement: Off-label and Expanded Indications, Cervical Total Disc Replacement: FDA-approved Devices, Cervical Total Disc Replacement: Novel Devices, Cervical Spine Surgery: Arthroplasty versus Fusion versus Posterior Foraminotomy, Cervical Total Disc Replacement: Complications and Complication Avoidance, Cervical Total Disc Replacement: Long-term Outcomes, Biomechanics of Cervical Arthroplasty Devices, Adjacent-level Disease following Spinal Arthroplasty, Lumbar Total Disc Replacement: Current Usage, and Posterior Lumbar Facet Replacement and Arthroplasty.

The Congress of Neurological Surgeons 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 the field. Separating the signal from the noise, this text offers papers that have shaped the practice of neurosurgery, selected through a rigorous process, and commented on by editorialists to reconcile conflicting points and summarize the take-home message of each study. Each paper is reviewed by a panel of two experts who provide editorials evaluating the strengths and weaknesses of the paper as well as the impact it had on the editorialist's personal practice of neurosurgery. This book is equally suited for neurosurgery residents, practicing neurosurgeons, and anyone interested in evidence-based clinical neuroscience. The body of literature covered in this book has in many ways defined the

gold standards of neurosurgical practice and is a must-know for every student of neurosurgery.

These proceedings cover new trends presented at the IV Congress of the International Society of Reconstructive Neurosurgery (ISRN), 2015. ISRN is an "open" multidisciplinary society that deals with advances in spine and peripheral-nerve reconstructive surgery, central nervous system revascularization (surgical, radio interventional), neuromodulation, bioengineering and transplantation, which are the latest tools used to promote reconstruction, restoration and rehabilitation.

Book Concept Now we get serious about a War on Drugs: The real inside story on the drug trade in Shadow Warrior is an action packed thriller that places the reader in the intricate world of drug money laundering. It gives a unique view of this world taken from actual case files of federal law enforcement authorities. Shadow Warrior introduces a new use of the successful spy genre moving the action in a high tech environment with stylistic scenes and characters that will linger with the reader. Shadow Warrior tells the story of John Stryker, a CIA agent given the assignment of taking the War on Drugs to a new level by disrupting the drug business in the U.S. Based on actual cases from federal law enforcement files, Stryker employs high tech and old fashion bravado in an attempt to destroy the illegal business of a covert drug kingpin, Jerry Roth. By putting intense pressure on this establishment multi-millionaire while stopping his ability to conduct drug laundering, the reader is brought into the intricate mechanism of drug laundering through established businesses with surprising revelations. Along the way, Stryker develops a romantic relationship with Roth's wife, Sharon. Initially, Stryker views Sharon only as a way to get closer to Roth, but a genuine romance develops between them fueled by erotic and passionate encounters. This relationship adds to the central conflict. Their romance becomes a casualty of the war between Stryker and Roth.

This issue of Neurosurgery Clinics, guest edited by Dr. Mark H. Bilsky, will cover key topics in Spinal Oncology. This issue is one of four selected each year by our series consulting editors, Dr. Russell R. Lonser and Dr. Daniel K. Resnick. Topics discussed in this issue will include: Radiation Strategies for Chordoma, New Prospects for Molecular Targets in Chordoma, Surgical Strategies for Chordoma, State of the Art Treatment for Giant Cell Tumors, NOMS and Other Decision Frameworks for Metastatic Disease, Evolving Role of SBRT in Spine Metastases, Hybrid Therapy for Metastatic Disease, Interventional Hybrid Therapy for Metastatic Disease LITT and SBRT, MIS Strategies Changing the Treatment of Spine Tumors, Intradural Tumors, SBRT for Benign Spine Tumors, and Evolving Diagnostic Treatment Paradigms for Spine and Peripheral Nerve Manifestations of NF, among others.

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