

Objective Study Of Neurosurgery

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.

An absolute requisite for the neurosurgery exams and an indispensable source of guidance on overcoming the challenges that arise in everyday practice - This excellent neurosurgical study tool offers superb preparation for in-service and national qualifying exams - Reflects all of the updates and developments to make this volume a leader in the field - Incorporates an enhanced emphasis on neurosurgical outcomes to mirror the growing importance of this super special subject - Delivers comprehensive updates to keep the readers current with the latest research, techniques and emerging procedures in the field as well as completely new questions on every topic to help aspirants for a rapid revision of neurosurgery for entrance in MCh exam - Contains necessary explanations at the end of questions in order to make the topic explicitly understandable and to offer a reasoning behind the specific answer

This issue of Neurosurgery Clinics, Guest Edited by Drs. Manish K. Aghi and Lewis S. Blevins, will focus on Pituitary Adenoma. Topics include, but are not limited to, Molecular biology of nonfunctional and functional pituitary adenomas, Intraoperative Fluorescent Visualization of pituitary adenomas, Intraoperative MRI for pituitary adenomas, Pituitary Apoplexy, Management of giant pituitary adenomas, Management of Pituitary Adenomas Invading the Cavernous Sinus, Management of Recurrent Pituitary Adenomas, Medical Management of Cushing's Disease, Medical Management of Acromegaly, Surgery for Pediatric Pituitary Adenomas, Visual Outcomes after Pituitary Surgery, Endocrine Outcomes after Pituitary Surgery, Sodium perturbations after pituitary surgery, and Sinonasal Quality of Life After Pituitary Surgery.

Quality in an invasive discipline such as neurosurgery comprises evidence based medicine, cost effectiveness and also risk control. Risk control and quality management have become a science on their own, combining the expertise of many specialists such as psychologists, mathematicians and also economists. Intensive communication with basic safety scientists as well as safety experts from the industry and traffic promises ideas and concepts than can be adopted for neurosurgery. An international conference was held in Munich in October 2000 bringing together neurosurgeons and safety experts from outside medicine in

order to discuss basic aspects of risk control and quality management and to develop structures applicable to neurosurgery. Basic aspects such as principles of risk and safety management, the human factor as well as standards of neurosurgical patient care, proficiency of staff and residents, and industrial quality standards were discussed. The presentations and discussions resulted in a wealth of new ideas and concepts. This book contains this material and thus provides a unique and comprehensive source of information on the current possibilities of quality management in neurosurgery.

Evidence-based medicine is a concept that has come to the fore in the past few years. Clinicians are increasingly encouraged to practise patient management based on available evidence in the scientific literature. For example, new pharmacological therapies are only used when large randomized trials have 'proven' that a particular drug is better than existing ones. This is also the case in surgical specialties, although surgery has traditionally seen a lack of use of this information, with individual surgeon's preferences being most influential in treatment choices. However, more recently, there has been a large expansion of trials and studies aimed at providing surgeons with information to guide their choices using firm evidence. This new edition has been revised and expanded to include new data where relevant, and also features a new chapter on pituitary surgery. Landmark Papers in Neurosurgery, Second Edition, remains a key collection of the most important trials and studies in neurosurgery, allowing the reader to rapidly extract key results, and making it essential reading for all neurosurgeons and trainees in the field.

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Over the last 18 years, there have been many advances in the field of intraoperative monitoring. This new edition of

Neurophysiology in Neurosurgery: A Modern Approach provides updates on the original techniques, as well as other more recent methodologies that may either prove beneficial or are commonly used in neuromonitoring. The purpose of this book is to describe the integration of neuromonitoring with surgical procedures. Each methodology is discussed in detail as well as chapters describing how those methodologies are applied to multiple surgical procedures and the evidence used to support those uses. The second edition features a surgical procedure section, which focuses on specific surgical procedures and the type of monitoring used during these procedures. The original chapters have been updated, expanded, and the structure modified to ensure the book is beneficial to both physiologists and surgeons. This book is written for neurosurgeons, neurophysiologists, neurologists, anesthesiologists, interventional neuroradiologists, orthopedic surgeons, and plastic surgeons. Provides a valuable educational tool that describes the theoretical and practical aspects of intraoperative monitoring through example Presents in-depth descriptions of the most advanced techniques in intraoperative neurophysiological monitoring and mapping Features a surgical procedures section that focuses on specific surgical procedures and the type of monitoring used during these procedures

The last ten years has witnessed a resurgence of interest in stereotactic surgery although this has been mainly in the field of the comparatively simple stereotactic biopsy of intracranial tumours. There is also evidence of a returning interest in functional neurosurgery other than pain which has always sustained high levels of endeavour. The present work comprises selected papers from a much larger group of interesting and important communications to the European Society for Stereotactic and Functional Neurosurgery. They represent modern views on a wide variety of stereotactic surgical topics from internationally acclaimed experts in this field. The neurosurgeon who has little or no acquaintance with this fruitful sub-specialty will be surprised to find very broad applications of the technique which is gradually replacing many conventional neurosurgical procedures. This is particularly evident in the papers on tumours but there is also a section on the treatment of vascular disease which marks an extension of neurosurgical practice. The Society has always regarded technical advances as important and some of the most recent developments appear in this book. Finally, an exciting new development of neural transplantation marks the beginning of what may be an important part of neurological surgery in the future.

This issue focuses on meningiomas and includes articles on Incidental Meningiomas: Management Strategies in the Modern Neuroimaging Era, Advanced Neuroimaging for Intracranial Meningiomas, Endoscopic Endonasal and Keyhole Surgery for the Management of Skull Base Meningiomas, Preoperative Embolization for Intracranial Meningiomas, Management of Spinal Meningiomas, Medical Management of Meningiomas: Current Status, Failed Treatments and Promising Horizons, and many more!

#1 NEW YORK TIMES BESTSELLER • PULITZER PRIZE FINALIST • This inspiring, exquisitely observed memoir finds hope and beauty in the face of insurmountable odds as an idealistic young neurosurgeon attempts to answer the question What makes a life worth living? **NAMED ONE OF PASTE'S BEST MEMOIRS OF THE DECADE • NAMED ONE OF THE BEST BOOKS OF THE YEAR BY** The New York Times Book Review • People • NPR • The Washington Post • Slate • Harper's Bazaar • Time Out New York • Publishers Weekly • BookPage Finalist for the PEN Center USA Literary Award in Creative Nonfiction and the Books for a Better Life Award in Inspirational Memoir At the age of thirty-six, on the verge of completing a decade's worth of training as a neurosurgeon, Paul Kalanithi was diagnosed with stage IV lung cancer. One day he was a doctor treating the dying, and the next he was a patient struggling to live. And just like that, the future he and his wife had imagined evaporated. When *Breath Becomes Air* chronicles Kalanithi's transformation from a naïve medical student "possessed," as he wrote, "by the question of what, given that all organisms die, makes a virtuous and meaningful life" into a neurosurgeon at Stanford working in the brain, the most critical place for human identity, and finally into a patient and new father confronting his own mortality. What makes life worth living in the face of death? What do you do when the future, no longer a ladder toward your goals in life, flattens out into a perpetual present? What does it mean to have a child, to nurture a new life as another fades away? These are some of the questions Kalanithi wrestles with in this profoundly moving, exquisitely observed memoir. Paul Kalanithi died in March 2015, while working on this book, yet his words live on as a guide and a gift to us all. "I began to realize that coming face to face with my own mortality, in a sense, had changed nothing and everything," he wrote. "Seven words from Samuel Beckett began to repeat in my head: 'I can't go on. I'll go on.'" When *Breath Becomes Air* is an unforgettable, life-affirming reflection on the challenge of facing death and on the relationship between doctor and patient, from a brilliant writer who became both.

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This book is a practical guide for the use of simulation in neurosurgery, with chapters covering high fidelity simulation, animal models simulation, cadaveric simulation, and virtual reality simulation. Readers are introduced to the different simulation modalities and technologies and are guided on the use of simulation for a variety of learners, including medical students, residents, practicing pediatricians, and health-related professionals. Comprehensive Healthcare Simulation: Neurosurgery is written and edited by leaders in the field and includes dozens of high-quality color surgical illustrations and photographs as well as videos. This book is part of the Comprehensive Healthcare Simulation Series which provides focused volumes on the use of simulation in a single specialty or on a specific simulation topic, and emphasizing practical considerations and guidance.

Quality and Safety in Neurosurgery covers recent improvements and presents solutions for problems that impact patient care. This book is written for anyone who works at the intersection of quality, safety and neurosurgery, including neurosurgeons, neurologists, clinical researchers looking to improve outcomes in neurosurgery, hospital quality and safety officers, department leaders, fellows and residents. Edited by neurosurgeons who helped build the culture of quality and safety in the Department of Neurosurgery at UMN, this work emphasizes quality and safety, whether through 'value based purchasing', finding specialty specific quality and safety metrics, or just the professional desire to provide quality care. Presents an overview of quality and safety in neurosurgical settings and discusses solutions for problems that impact patient care Gives readers the tools they need to improve quality and safety in neurosurgery Provides examples on how to implement new tactics Includes coverage on teams, competence, safety, hospital incentives, quality, the physician handoff, medication compliance and operating room efficiency, and more

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In Listen to the Patient Ciric weaves together the story of his life, which brought him from a continent and ocean away to the US, with the meaning, secrets, and ethical aspects of neurosurgery, including the unique privilege and daunting responsibility of

navigating through the hidden nooks and crannies of the human brain. Through a series of select patients stories and operations, Ciric describes the cascading steps leading up to a neurosurgical procedure for a variety of brain and spinal cord maladies, and he shares the intricate details and majestic beauty of brain and spinal cord surgeries. Blending technical information with personal stories and humor, this memoir reminisces about a life well lived. This is an extremely pleasant walk through reminiscences in the life of a true neurosurgical giant. Colleagues and laity will gather much from his lifewell-lived and hard-workedand the sage lessons derived from the collisions of past and present, success and failure, hope and despair, are eloquently described in this story of dedication and devotion from the humble humanity of this remarkable man. I highly recommend the read. John L. D. Atkinson MD, FACS, Professor of Neurosurgery, Mayo Clinic Rochester, Minnesota This book is an inspiring odyssey. Its elegant prose describes the character and accomplishments of a premier neurosurgeon. His intellect and surgical prowess are responsible for important technical and conceptual advances in the challenging field of neurological surgery. This is a chronicle of a true surgeons surgeon, a valued educator, and a role model for many of his peers. Edward R. Laws, MD, FACS, Professor of Neurosurgery, Harvard Medical School

This issue of Neurosurgery Clinics, guest edited by Dr. Michael A. Vogelbaum, is devoted to Glioblastoma, Part I: Surgical Management and Adjuncts. This is one of four issues selected each year by the series Consulting Editors, Russell R. Lonser and Daniel K. Resnick. Articles in this issue include: Perioperative Management of Patients with Glioblastoma, Role of Resection in Glioblastoma Management, Advancing Imaging to Enhance Surgery, Intraoperative Imaging for High-Grade Glioma Surgery, Use of Intraoperative Fluorophores, Extent of Resection of Glioblastoma, Functional Mapping for Glioma Surgery: Preoperative Mapping Tools, Functional Mapping for Glioma Surgery: Intraoperative Mapping Tools, Surgical Adjuncts for Glioblastoma, Window of Opportunity Clinical Trials to Evaluate Novel Therapies for Brain Tumors, Stereotactic Laser Ablation of Glioblastoma, Radiosurgery for Glioblastoma, Challenges Associated with Reoperation in Patients with Glioma, and Surgery for Glioblastoma in Elderly Patients.

Atlas of Neurosurgical Techniques: Brain presents the current information on how to manage diseases and disorders of the brain. Ideal as a reference for review in preparation for surgery, this atlas features succinct discussion of pathology and etiology that helps the reader gain a firm understanding of the underlying disease and conditions. The authors provide step-by-step descriptions of surgical techniques, clearly delineating the indications and contraindications, the goals, the operative preparation and anesthesia, and postoperative management. Common complications of techniques are also emphasized. Over 900 illustrations aid the rapid comprehension of the surgical procedures described in the text. Highlights: Clear descriptions of the surgical management of aneurysms, arteriovenous malformations, occlusive and hemorrhagic vascular diseases, tumors, lesions, pain disorders, trauma, infections, and more Detailed discussion of disease pathology, etiology, and differential diagnosis Concise outlines of indications, contraindications, as well as advantages and disadvantages of each technique illuminate the rationale behind surgical management More than 900 illustrations, including 684 in full-color, demonstrate key concepts Sections on the

latest techniques in stereotactic and minimally invasive surgery This companion volume to Atlas of Neurosurgical Techniques: Spine and Peripheral Nerves is an essential reference for all neurosurgeons and residents seeking the current information on state-of-the-art techniques in brain surgery.

Good neurosurgical practice is based not only on evidence, skills, and modern equipment, but also on good values. This book is the first to discuss specifically the ethical issues that arise during the daily practice of neurosurgery. It is divided into three parts addressing patients' rights, ethical issues relating to the working environment, and wider societal aspects such as dealings of neurosurgeons with the legal system, the media, and companies. The authors are well-established neurosurgeons who present the ethical problems that they have encountered during their careers and explain what they have learned in confronting these problems. In all, more than 50 neurosurgical cases drawn from real life are reported and discussed from an ethical point of view. This book will be especially informative for young neurosurgeons and will provide all who work in this very special field with a road map on how to avoid violations of medical ethics in neurosurgical practice.

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This Acta Neurochirurgica supplement distills the accomplishments of the Joint Convention of the Academia Eurasania Neurochirurgica and the German Academy of Neurosurgery held in Bamberg, Germany from Sept. 1-3 2005. The main focus is "Medical Technologies for Neurosurgery," including: imaging, image processing, robotics, workflow analysis and ethics. Coverage extends from an overview of medical technologies, to robotic-assisted systems in neurosurgical operating rooms, to intraoperative MRI.

"The dominant method of training and assessment of neurosurgical trainees is in traditional apprenticeship settings where students learn from their more experienced mentors. Objective assessment of neurosurgical technical skills in the operating room is difficult and educators have emphasized the need to develop and use objective and meaningful assessment tools that are reliable and valid to assess the acquisition and progress of trainees' surgical skills. Novel technologies, such as simulation, may play important roles in the training of future expert neurosurgeons. The purpose of this study was to validate new objective measures (metrics) of neurosurgical technical skills performance during simulated brain tumor resection using a virtual reality simulator (NeuroTouch). A

total of 112 participants were recruited for this study including 16 experts (neurosurgery staff) and 96 novices (15 neurosurgery residents, and 81 medical students). Each participant performed 18 simulated brain tumor resections. The metrics for assessing performance in this study were completed through activities using the simulator and consisted of assessing: percentage of brain tumor resected, volume of surrounding normal brain tissue removed, sum of force applied during tumor resection, instrument path length, frequency of pedal activation, and duration for task completion. The results demonstrated that this system has face and content validity. NeuroTouch can be used to differentiate between experts and novices based on their technical performance and this component can potentially be beneficial for neurosurgery residency candidates screening procedures. Expert neurosurgeons (neurosurgery staff) resected statistically less tumor tissue and statistically less surrounding simulated normal brain tissue than novices did. This information suggests that experts focused more on safety of the surgical procedure compared to novices. By analyzing experts' neurosurgical technical skills performance on these different metrics we were able to establish benchmarks for goal proficiency-based training of neurosurgery residents. We conclude that examining expert neurosurgical performance in simulated settings such as NeuroTouch provides researchers with novel metrics for assessment. Identification of expert proficiency can lead to improvements in resident training and assessment." --

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Praise for the previous edition:An excellent review for the written neurosurgical boards...recommended to all neurosurgery residents.--Journal of NeurosurgeryThe second edition of Comprehensive Neurosurgery Board Review contains all the information you need to prepare for the American Board of Neurological Surgery (ABNS) written examination. Authored by a team of expert clinicians and neurosurgery trainees who earned top scores on their exams, this edition distills the current knowledge of the neurosciences and essential information for clinical practice. Six chapters provide comprehensive coverage of core concepts in anatomy, physiology, pathology, radiology, neurology, neurosurgery, and critical care. Features of the second edition: Concise descriptions aid rapid review of key concepts Bullet-point format enhances ease of use and facilitates comprehension Up-to-date coverage of classic symptoms and signs of common neurosurgical diseases Current information related to the genetic basis of neurosurgical conditions 450 high-quality illustrations and images typical of those appearing on exams This superb review is an indispensable resource for neurosurgical residents preparing for the ABNS certification exam. It is also ideal for clinicians seeking

a refresher or for those preparing for recertification exams.

'Guiding Neurosurgery' by Evidence provides its readers with a succinct review of contemporary neurosurgical practice when evaluated by evidence-based medicine standards. It begins with an introduction of concept and principles of evidence-based medicine. The subsequent chapters address the topics of brain tumor epidemiology, benign adult brain tumors, pediatric neurosurgery, endovascular treatment of cerebrovascular disorders, lumbar spine surgery, minimally invasive spine surgery, stereotactic radiosurgery, trauma, and the treatment of chronic pain disorders by neurostimulation. Each chapter summarizes the available literature and grades it according to the quality of the evidence-based medicine in neurosurgical highlights not only the usefulness of evidence-based medicine in neurosurgical practice, but also its limitations with regard to neurosurgical disorders that are frequently rare and therefore impossible to evaluate in randomized clinical trials. Neurological surgeons and neurologists, both practicing physicians and residents in training, will find in this publication valuable information about the practice of the different neurosurgical subspecialties by evidence-based medicine standards.

This book describes contemporary clinical practice in the application of neurosurgical methods to the treatment of psychiatric disorders. It covers diverse topics such as neuroimaging, ethics and a historical review, Gamma Knife and High Frequency Ultrasound ablation, deep brain electrical stimulation and preoperative evaluation and postoperative follow-up. Its application in Obsessive Compulsive Disorder, Major Depression, Tourette syndrome, Addiction, Anorexia, Aggression and Schizophrenia are discussed in separated chapters. This book presents concise information provided by clinical and academic practitioners and will facilitate the application of neurosurgical treatment techniques to patients.

Key Features: This is the only book in India, exclusively published for NIMHANS PG Entrance Exam and is very successful since 2001. NIMHANS Online Pattern MCQs of 2017 exams included. 780 Image-based NIMHANS Pattern Questions are provided with utmost clarity. 5,200 NIMHANS Pattern Previous Exam Questions thoroughly revised and updated from 19th Edition of Harrison's Internal Medicine and 26th Edition of Bailey & Love's Surgery. MCQs are arranged year-wise in each subject from 1998–2017. Very thoroughly verified answers from super-specialty subject experts, faculty members of neuro institutes and PG aspirants. Explanations are provided precisely in bullet and tabulated form incorporating only high yield and relevant facts. Repeatedly asked questions and their essence has been highlighted as important points in nutshell. More illustrations are added to understand the difficult topics better. Necessary Mnemonics for faster learning have been added.

This textbook aims to examine some of the most controversial areas of neurological surgery by applying the current evidence to illuminate our understanding of the pathophysiology of each disease and the outcomes from surgical and non-surgical treatments. The Evidence for Neurosurgery is a textbook that will challenge current dogmas in many instances, provide an organized framework for understanding where current evidence can be applied clinically, and illustrate where gaps in the evidence exist and how these deficiencies may be filled in the future. In the first chapter, "Clinical Evidence", the reader will gain an understanding of the levels of clinical evidence and will learn what types of study designs are appropriate and in which situations. The textbook is

then divided into six sections: Spine, Vascular, Tumor, Pediatrics, Functional, and Trauma.

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Neurosurgery is a rapidly developing and technically demanding branch of surgery that requires a detailed knowledge of the basic neurosciences 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 Spinal 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.

Volume 51 of Clinical Neurosurgery is the official compendium of the platform presentations at the 53rd Annual Meeting of the Congress of Neurological Surgeons held in October, 2003.

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Evidence-Based Neurosurgery: An Introduction will teach the practitioner to employ evidence-based approaches to common problems in neurosurgery. The book begins with a review of the concepts and techniques involved in the practice of evidence-based medicine, including the basics of critical analysis using methodologically rigorous evidence-synthesis techniques. The second part of the text provides useful examples of the use of this critical analysis for common clinical situations, such as stent placement, managing infection, metastases, craniocerebral trauma, cervical spine trauma, and more. The book covers all phases of clinical practice, from patient assessment, to diagnosis, to prognosis, and treatment, helping you address such questions as: How do you reliably determine the characteristics of the individual patient's condition? What is the likely course of the disease? How do you determine what interventions are likely to have a positive impact? Does the intervention work under certain specified circumstances? Evidence-Based Neurosurgery is an invitation to apply the rigorous methods of evidence-based medicine to improve your practice of neurosurgery.

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