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This second edition of
Samii's Essentials in
Neurosurgery contains

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revised and updated
versions of chapters
from the first edition
plus contributions on
new topics written by
leading neurosurgeons
who were trained by

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Professor Madjid Samii
in Hannover, Germany.
Almost all fields of
neurosurgery are
covered. The authors
follow the traditional
principles of Samii's

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philosophy in the diagnosis and management of various neurosurgical pathologies, while presenting their own personal experiences. The extensively

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illustrated texts
document clearly how
cutting-edge technology
in neurosurgery is being
applied in new
approaches and
techniques. This book

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will greatly assist
neurosurgeons, ENT
surgeons,
neuroradiologists,
neurologists, and
neurophysiotherapists in
their everyday practice.

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Quality in an invasive discipline such as neurosurgery comprises evidence based medicine, cost effectiveness and also risk control. Risk control and quality

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management have become a science on their own, combining the expertise of many specialists such as psychologists, mathematicians and also economists. Intensive

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communication with basic safety scientists as well as safety experts from the industry and traffic promises ideas and concepts than can be adopted for

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neurosurgery. An international conference was held in Munich in October 2000 bringing together neurosurgeons and safety experts from outside medicine in

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order to discuss basic aspects of risk control and quality management and to develop structures applicable to neurosurgery. Basic aspects such as

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principles of risk and safety management, the human factor as well as standards of neurosurgical patient care, proficiency of staff and residents, and

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industrial quality standards were discussed. The presentations and discussions resulted in a wealth of new ideas and concepts. This book

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contains this material
and thus provides a
unique and comprehensive
source of information on
the current
possibilities of quality
management in

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neurosurgery.

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Compounds—Advances in
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"The dominant method of
training and assessment

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of neurosurgical
trainees is in
traditional
apprenticeship settings
where students learn
from their more
experienced mentors.

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Objective assessment of neurosurgical technical skills in the operating room is difficult and educators have emphasized the need to develop and use

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objective and meaningful assessment tools that are reliable and valid to assess the acquisition and progress of trainees' surgical skills. Novel

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technologies, such as simulation, may play important roles in the training of future expert neurosurgeons. The purpose of this study was to validate

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new objective measures
(metrics) of
neurosurgical technical
skills performance
during simulated brain
tumor resection using a
virtual reality

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simulator (NeuroTouch).
A total of 112
participants were
recruited for this study
including 16 experts
(neurosurgery staff) and
96 novices (15

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neurosurgery residents,
and 81 medical
students). Each
participant performed 18
simulated brain tumor
resections. The metrics
for assessing

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performance in this study were completed through activities using the simulator and consisted of assessing: percentage of brain tumor resected, volume

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of surrounding normal
brain tissue removed,
sum of force applied
during tumor resection,
instrument path length,
frequency of pedal
activation, and duration

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for task completion. The results demonstrated that this system has face and content validity. NeuroTouch can be used to differentiate between experts and

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novices based on their technical performance and this component can potentially be beneficial for neurosurgery residency candidates screening

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procedures. Expert
neurosurgeons
(neurosurgery staff)
resected statistically
less tumor tissue and
statistically less
surrounding simulated

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normal brain tissue than novices did. This information suggests that experts focused more on safety of the surgical procedure compared to novices. By

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analyzing experts'
neurosurgical technical
skills performance on
these different metrics
we were able to
establish benchmarks for
goal proficiency-based

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training of neurosurgery residents. We conclude that examining expert neurosurgical performance in simulated settings such as NeuroTouch provides

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researchers with novel metrics for assessment. Identification of expert proficiency can lead to improvements in resident training and assessment." --

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Proceedings of the 8th
Meeting of the European
Society for Stereotactic
and Functional
Neurosurgery, Budapest
1988

Glioblastoma, Part I:

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Surgical Management and
Adjuncts, An Issue of
Neurosurgery Clinics of
North America, E-Book
ScholarlyBrief
Neurosurgical Treatments
for Psychiatric

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Disorders

Congress of Neurological
Surgeons Essential

Papers in Neurosurgery

This Acta Neurochirurgica
supplement distills the
accomplishments of the Joint

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Convention of the Academia
Eurasania Nuerochirurgica 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

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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.

Good neurosurgical practice is

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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'

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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

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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

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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.

Evidence-based medicine is a concept that has come to the fore

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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

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'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.

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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

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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

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results, and making it essential reading for all neurosurgeons and trainees in the field.

Issues in Neurological Surgery and Specialties: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about

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The Evidence for Neurosurgery
Neurophysiology in Neurosurgery

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Medical Department Army:
Surgery in World War II,
Neurosurgery, V.2
Clinical Neurosurgery
Editor in Chief, John Boyd Coates,
Jr.; Editors for Neurosurgery, R.
Glen Spurling [and] Barnes
Woodhall

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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

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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

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#1 NEW YORK TIMES BESTSELLER

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- 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

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- 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

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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

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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

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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?

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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

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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

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facing death and on the relationship between doctor and patient, from a brilliant writer who became both.

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

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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

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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 book provides a detailed summary of the most important trials and studies in

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neurosurgery, allowing the reader to rapidly extract key results. Each chapter is written by a prominent international neurosurgeon in that particular field, making this book essential reading for all neurosurgeons and trainees in the field. Volume 51 of Clinical Neurosurgery is the official compendium of the platform

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presentations at the 53rd Annual Meeting of the Congress of Neurological Surgeons held in October, 2003.

Guiding Neurosurgery by Evidence
Prioritizing Global Neurosurgery in the
Focus of Global Public Health: The
Ethical, Financial and Clinical Necessities
Twenty-five Years of Objective Study of

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the Higher Nervous Activity (behaviour) of
Animals

Youmans and Winn Neurological Surgery

The Neurosurgeon's Handbook

'Guiding Neurosurgery' by Evidence

provides it readers with a succinct
review of comtemporany neurosugrical
practice when evaluated by evidence-

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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 tumore, pediatric neurosurgery, endovascular treatment of cerebrovascular disorders, lumbar

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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

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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

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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.

Oxford Textbook of Neurological

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SurgeryOxford University Press, USA
Part of the Neurosurgery by Example
series, this volume on spinal
neurosurgery presents exemplary
cases in which renowned authors
guide readers through the assessment
and planning, decision making,
surgical procedure, after care, and

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complication management of common and uncommon disorders. The cases explore the spectrum of clinical diversity and complexity within spinal neurosurgery, including occipital cervical dislocation, cervical myelopathy, thoracic cord compression, lumbar stenosis, and

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more. Each chapter also contains 'pivot points' that illuminate changes required to manage patients in alternate or atypical situations, and pearls for accurate diagnosis, successful treatment, and effective complication management. Containing a focused review of medical evidence

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and expected outcomes, Spinal Neurosurgery is appropriate for neurosurgeons who wish to learn more about a subspecialty, and those preparing for the American Board of Neurological Surgery oral examination. Advance Praise for Spinal Neurosurgery "I congratulate Drs.

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Harrop and Maulucci for this well done book that utilizes a unique and very effective format to cover the gamut of spine surgery and spine care topics. The book is well organized, lavishly illustrated with numerous figures and images, and includes oral board review pearls that are of particular

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value for those studying for their neurosurgery board examinations." -- Edward Benzel, MD, Emeritus Chair of Neurosurgery, Cleveland Clinic, Cleveland, OH "Through this extensive collection of various spine related clinical scenarios, the reader is able to learn very pertinent management

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principles and pearls. This book is particularly useful for those who are preparing for the oral boards, but also serves as excellent reading material for neurosurgeons and orthopedic spine surgeons at any stage in their career." -- Charles Sansur, MD, Associate Professor of Neurosurgery,

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University of Maryland School of Medicine, Baltimore, MD "Drs. Harrop and Maulucci have assembled an excellent compendium of cases/pathologies. The "Case-based" approach of this text lends itself to an easy readability as well as a compartmentalization of the reading

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for busy practitioners. This book is extremely useful to practitioners at all stages in their career, as it covers both basic and controversial information for each topic, and may be particularly useful for those surgeons reviewing for their oral board examination." --

Michael Y. Wang, MD, FACS,

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Professor of Neurological Surgery and
Rehab, Medicine Spine Fellowship
Director, Chief of Neurosurgery,
University of Miami Hospital and Miller
School of Medicine, Miami, FL
Praise for the previous edition:An
excellent review for the written
neurosurgical boards...recommended

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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

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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,

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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

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ideal for clinicians seeking a refresher
or for those preparing for recertification
exams.

British Journal of Neurosurgery
Lectures on Conditioned Reflexes
Medical Technologies in Neurosurgery
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Neurosimulation (NeuroTouch) in
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This book describes contemporary

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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

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ablation, deep brain electrical stimulation and preoperative evaluation and postoperative follow-up. Its application in Obsessive Compulsive Disorder, Major Depression, Tourette syndrome, Addiction, Anorexia,

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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

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techniques to patients.

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

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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;

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**Posterior Fossa Tumours; Pineal
tumours; Uncommon Tumours
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**Peripheral Nerve Surgery;
Functional Neurosurgery;
Epilepsy; Paediatric
Neurosurgery; Neurosurgery for
Cerebrospinal Fluid Disorders
and Neurosurgical Infection).**
Each section takes a dual

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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

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(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

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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

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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

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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

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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-

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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

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A Modern Approach

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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

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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

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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

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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,

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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,

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must-know for every student of neurosurgery.

Emerging as a new sub-specialization within the hospitalist community, the neurosurgery hospitalist provides preoperative risk

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neurosurgery patient has been shown to offer effective care since hospitalists can be better attuned than specialists to multiple medical problems that most patients have. Medical Management of Neurosurgical

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The work will focus on management of CNS infections, management of bleeding in the context of CNS surgery (a potentially catastrophic complication), management of sodium and blood glucose levels

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including steroid-induced hyperglycemia, perioperative pain control, and management of pressure injuries and rehabilitation in the context of CNS injury.

Issues in Neurological Surgery

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Textbook of Stereotactic and
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Samii's Essentials in
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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

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procedures.

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

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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

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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,

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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

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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

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Neurosurgery

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I: Surgical Management and
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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

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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

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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

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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

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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

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