

# Landmark Papers In Neurosurgery

This extensively revised edition is an essential reference for physicians involved in the diagnosis, referral and treatment of the thoracic outlet syndrome (TOS). TOS is made up of a constellation of problems resulting from pathology at the thoracic outlet in the neck. Busy specialty practice sees multiple affected patients in every clinic, but TOS can often be difficult to diagnosis.

Thoracic Outlet Syndrome explores all possible ancillary care issues surrounding this complex condition, including rehabilitation, disability, natural history and medicolegal issues, and aims to stimulate research, discussion and a sense of community between professionals involved in this area. Vascular and thoracic surgeons, neurosurgeons, neurologists, psychiatrists and psychologists, physical therapists, occupational medicine specialists and pain specialists will find this book a must read for successful treatment, referral and diagnosis of TOS in clinical practice.

Spine Surgery, 2nd Edition delivers step-by-step, multimedia guidance to help you master the must-know techniques in this field. Part of the popular and practical Operative Techniques series, this orthopaedics reference focuses on individual procedures, each presented in a highly visual, easy-to-follow format for quick reference. Access the entire text, fully searchable, online at [www.expertconsult.com](http://www.expertconsult.com). Concentrate on precisely the information you need with brief, highly illustrated coverage of each surgical technique, complemented with just the right amount of relevant

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science. Find the answers you need quickly and easily with a strictly templated format for consistent and rapid visual reference. View 12 surgical videos at [www.expertconsult.com](http://www.expertconsult.com) demonstrating how to perform state-of-the-art procedures such as C1-C2 Posterior Cervical Fixation, Minimally Invasive Deformity Correction and Fusion, and Lumbar Disc Arthroplasty. Learn today's hottest techniques with new chapters on C2 translaminar fixation, vertebroplasty/kyphoplasty, internal laminectomy, and interbody fusion. See exactly what to do using step-by-step intraoperative photos demonstrating each technique, and radiographs showing presenting problems and post-surgical outcomes. Achieve optimal results using minimally invasive surgery whenever possible. Contain costs by using new implants related to pedicle screws and interbody devices, as well as new biologics such as BMP (bone morphogenetic protein). Benefit from the latest evidence-based information from randomized trials and retrospective studies.

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

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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.

Landmark Papers in General Surgery will give surgeons, surgical trainees and other healthcare professionals an expert appraisal of key papers, and fast access to the evidence base behind current clinical practice in General Surgery. Each chapter draws together a fascinating selection of the most important clinical trials across every subspecialty within General Surgery, as selected and appraised by a panel of experts. Organized according to a common format, each discussion offers a clear structure by which to appraise the medical literature. Following a background summary of each trial, experts discuss the impact of the research and critique the methods used, giving the reader rapid understanding of the paper's place within the wider field of research. This emphasis on the tools of critical appraisal is enhanced by an introductory chapter equipping the reader with the skills required to knowledgeably appraise a research paper. For clinicians needing to keep abreast of the vast

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scope of medical research, this book will prove an interesting and timesaving resource, but it will also appeal to allied health professionals keen to improve the depth of their understanding of surgery. By bringing together the evidence base with expert guidance on critical appraisal, higher surgical trainees preparing for the academic and specialty sections of the FRCS exit examination will also find the text invaluable as a means of consolidating and nuancing their knowledge.

Brings together the ten most important papers for each sub-speciality within neurology, covering the full range of major neurological conditions. Papers are selected by international experts, who not only summarize what each paper showed, but place them into a wider context demonstrating how their sub-speciality has developed.

Part of the Neurosurgery by Example series, this volume on cerebrovascular neurosurgery presents exemplary cases in which renowned authors guide readers through the assessment and planning, decision making, surgical procedure, after care, and complication management of common and uncommon disorders. The cases explore the spectrum of clinical diversity and complexity within cerebrovascular neurosurgery, including aneurysms, ischemic/occlusive disease, arteriovenous malformation, dural arteriovenous fistula, and 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 and expected outcomes, Cerebrovascular Neurosurgery is appropriate

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for neurosurgeons who wish to learn more about a subspecialty, and those preparing for the American Board of Neurological Surgery oral examination. Part of the Oxford Case Histories series, this volume includes 65 neurosurgical cases covering core topics specified in the UK Neurosurgical Training Curriculum. Cases are drawn from the following clinical areas: trauma, vascular neurosurgery, tumours, spinal neurosurgery, hydrocephalus and paediatric neurosurgery, functional neurosurgery, and medical problems in neurosurgery. Revolving around actual patients and the relevant knowledge required in specific situations for decision making in clinical practice, this book will serve as an invaluable educational tool to help trainees, doctors, and practising neurosurgeons manage the a wide variety of clinical scenarios encountered in neurosurgery.

This book reviews the basic science underpinning the autonomic control of various body systems as well as the state-of-the-art clinical applications by which these systems are surgically modulated in patients today. This book provides a detailed summary of the most important trials and studies in neurosurgery, allowing the reader to rapidly extract the key results of all major trials.

Emerging as a new sub-specialization within the hospitalist community, the neurosurgery hospitalist provides preoperative risk stratification, advises on managing pre- and postoperative complications, and helps doctors make decisions about when to involve

specialists other than neurosurgeons. This collaborative approach to the 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 Patients* is a first of its kind textbook providing a standardized source of information for neurosurgery hospitalists in order to establish a common ground and improve their knowledge and training. 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 including steroid-induced hyperglycemia, perioperative pain control, and management of pressure injuries and rehabilitation in the context of CNS injury.

A compact, readable and highly-authoritative source of critical neurosurgical information, *Neurosurgery* has been produced with the participation of some of the world's leading neurosurgeons and neuroclinicians and is based on the curriculum of British, European and North American neurosurgical training programs. The book is extensively illustrated with hundreds of figures demonstrating the imaging features of all major neurosurgical pathologies, including diagrams explaining key anatomical and surgical concepts, and images showing the features of common brain tumours. There are key references

at the end of each chapter and critical commentary of neurosurgical literature is also included. The handbook concisely covers all aspects of adult and paediatric neurosurgery. It is systematically and clearly broken down into easy-to-follow sections such as introductory basic concepts, definitions, epidemiology, pathology, clinical and neuroradiological characteristics, clinical management and decision making. Additional sections on operative treatment include the key critical surgical anatomy, and clear, step-by-step descriptions of common surgical techniques. Widely accepted practice guidelines, major classification schemes and common scales are clearly presented and explained.

Neurosurgery: The Essential Guide to the Oral and Clinical Neurosurgical Examination is the first book of its kind to cover the International and Intercollegiate FRCS Specialty Examination in Neurosurgery. It will also help you prepare for the American Board of Neurological Surgery (ABNS) examination and other neurosurgical examinations around the world. Written by neurosurgeons, this book is a hands-on guide that translates basic science and theories of neurosurgery into clinical practice. This comprehensive resource takes a standardized and logical approach to the clinical neurosurgical examination. Based on the authors' own clinical practice, teaching and examination

experiences, this book provides candidates with a firm grasp of neuroscience and the ability to solve problems under pressure. Scenario- and patient-based, the book covers history-taking, clinical examination, differential diagnosis, investigations, management, treatment options and potential complications. The text is based on the Royal College of Surgeons of England and U.S. board syllabuses. In addition to serving as a reliable preparation resource for the neurosurgical examination, it will also be invaluable in your future surgical practice.

A 64-year-old woman has been referred to the on-call general surgical team by her GP. She has been complaining of pain in the upper part of her abdomen and generalized itching. Her daughter has also noticed a yellowish discolouration of her skin. The symptoms started a week ago and are gradually getting worse. You have been assigned her initial

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This book describes and illustrates an approach to surgery for spinal cord tumors that is based on a refined concept of anatomic compartmentalization. The aim of this approach is to enable maximum preservation of spinal cord function through confinement of the surgical work to the involved compartment or compartments. Importantly, this involvement differs according to tumor type, and the classification favored by the author takes this fully

into account. After introductory chapters on epidemiology and pathology, the anatomy of the spinal cord relevant to surgery for spinal cord tumors is discussed in detail and the proposed classification is clearly explained. The surgical approach to each of the identified anatomic compartments is then described, with attention to the roles of intraoperative mapping techniques, diffusion tensor imaging, and electrophysiologic studies in ensuring that spinal cord functions are spared. Examples of the author's experience when applying the proposed approach are presented. The book is meant for neurosurgeons at all levels of experience.

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Otolaryngological conditions affect people of all ages from newborns to older members of society, and have serious consequences for daily functions such as breathing, taste, and communication. There is a constant desire to understand the best evidence for current practice in a constantly evolving field such as medicine, and key publications underpin this contemporary knowledge. Landmark Papers in Otolaryngology presents a distilled summary of 99 of the classic, ground-breaking, and significant publications in the field of otolaryngology that are of essential relevance to the speciality today. Each paper is described, critiqued, and brought into the context of modern-day practice by a carefully

selected team of international authorities from each subspecialist area to provide the reader with a clear understanding of the key publications in otolaryngology. Whether your aim is to understand the origins of otolaryngology, to review advances in key areas, or to gain insight from experts, this book offers a wealth of knowledge for everyone in the field, from the new trainee to the senior clinician. Landmark Papers in Otolaryngology is an invaluable and easily accessible reference text for all practitioners in the field, as well as those in overlapping specialities such as maxillofacial surgery, neurology, and plastic surgery.

Evidence-based medicine is a concept that is at the forefront of anaesthesia. Clinicians are increasingly encouraged to practise patient management based on available evidence in the scientific literature. For example, new anaesthesia methods, e.g. regional anaesthesia, are being used more frequently based on case studies that show the efficacy and cost-savings associated with the treatment. Additionally, considering that many anaesthetists are required to cover a range of areas, information discussing proven methods as well as pitfalls to avoid are valuable to all those working in the field. This book provides a detailed summary of the most important trials and studies in anaesthesia, ranging from neuroanaesthesia and anaesthesia for transplant, to paediatric and thoracic anaesthesia, allowing the

reader to rapidly extract key results. Each chapter is written by a prominent anaesthetist in that particular field, and papers have been selected on a number of criteria, included impact factor, authors' choices, or even because the conclusions reached do not indicate best practice. With this wealth of information collected into this newest volume in the 'Landmark Papers in' series, Landmark Papers in Anaesthesia is essential reading for all practicing anaesthetists. A major contribution to the literature in neurology from renowned neurointensivist Eelco F.M. Wijdicks, MD, PhD, Famous First Papers for the Neurointensivist presents and critically assesses numerous papers that have made a profound impact on the diagnosis and treatment of neurologically acute conditions. In general, there has been little historical work in acute neurologic conditions, precisely because neurology is not perceived through this perspective. Famous First Papers for the Neurointensivist addresses this problem by a scholarly treatment of early descriptions of clinical signs, syndromes and presenting the development of treatment of these acute disorders. Using a uniform and easy-to-read format, the title offers a clear reproduction of each paper's title page, a short historical note, and a brief discussion and its implications, and a final comment to provide perspective. Landmark clinical trials that apply to acute neurology are included, and the book also

briefly discusses the birth of intensive care units. Ground-breaking and indispensable for all physicians and researchers interested in neurocritical care, *Famous First Papers for the Neurointensivist* is a unique, original reference, providing not only a single source for discovering the most important papers in the field but also a critical analysis of the impact of each paper on the development of neurocritical care. "Dr Wijdicks has been integral to the growth and development of neurocritical care as a specialty. He has cultivated it firsthand, serving as a contemporary of Raymond Adams, C. Miller Fisher, and Allan Ropper, all pioneers in acute neurological care. He established the neurocritical care program at the Mayo Clinic in the early 1990s and has served as the editor in chief of the journal *Neurocritical Care*, which was first published in 2004 after the foundation of the Neurocritical Care Society. His unique vantage point allows him to bring us a book that few others could produce, *Famous First Papers for the Neurointensivist*. This book is an original in the field and should be on the reading list of anyone who cares for critically ill neurologic and neurosurgical patients... Reading this book from cover to cover is highly recommended. The writing is clear and concise, and the transitions are smooth. Each essay is self-contained and allows the reader to set his or her own pace. Once completed, the book serves as a

great reference book because each essay stands on its own. The photographs of the manuscripts' title pages and key tables and figures are of high quality, and a translation is provided if the original work was not in English... Dr Wijdicks has sifted through the library stacks and has emerged with a book that puts the specialty of neurocritical care into historical perspective. In order to know where you are going, you must first know where you have been. This holds especially true for neurocritical care because the specialty continues to grow and flourish." -- JAMA NEUROL/VOL 70 (NO. 4), APR 2013 WWW. JAMANEURO.COM

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

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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.

50 Studies Every Surgeon Should Know presents key studies that have shaped the practice of surgery. Selected using a rigorous methodology, the studies cover topics including: vascular, colorectal, bariatric, abdominal, hernial, and endocrine surgery, surgical outcomes, surgical oncology, trauma and surgical critical care, and studies of historical interest. For each study, a concise summary is presented with an emphasis on the results and limitations of the study, and its implications for practice. An illustrative clinical case concludes each review, followed by brief information on other relevant studies. This book is a must-read for health care professionals and anyone who wants to learn more about the data behind clinical practice.

Advances in the practice of psychiatry have occurred in "fits and starts" over the last several decades. These advances are evident to anyone long affiliated with the field and are best appreciated through direct experience of living through the times. These advances can also be gleaned from historical

overviews in textbooks or the recollections of one's teachers and mentors. Returning to the original papers that have ushered in these changes is rarely done for various, mostly practical, reasons. Filtering through thousands of articles in psychiatry may prove daunting, access to the manuscripts may be limited (especially for papers not available electronically), and understanding their impact requires a broader context. Moreover, with so much active research currently occurring in various branches of psychiatry, current practitioners or trainees may find their attention focused on the present, and this is reinforced by electronic search algorithms, which return articles in reverse chronological order. Not surprisingly, citations for articles in virtually all fields decline precipitously for articles over five years old. As scholars and professionals, we are losing touch with our academic heritage. Yet navigating the future of psychiatry requires a firm understanding of its past. This resource serves as a guide for anyone seeking to understand the evolution of psychiatry as a scientific discipline. It does so by summarizing over 100 landmark papers in psychiatry and placing their scientific contributions within a historical context. An introductory section sets the stage for the major theoretical constructs within the field, with chapters devoted to ontology and nosology. Subsequent sections examine major facets of the theory and

practice of psychiatry, such as pathogenesis of psychiatric illness, pharmacotherapy, psychotherapy, and somatic treatments. These sections are divided logically into chapters addressing important contributions to the understanding and treatment of specific disorders. A final section explores ethical considerations within each field. This framework echoes the complexity of psychiatry, which cannot be reduced to a single set of diagnoses or subspecialty categories. Highlighting the research trajectory of psychiatry, this resource will appeal to academics, trainees, and practitioners who desire a comprehensive, easy-to-read, up-to-date collection of psychiatry's pivotal moments. By understanding the challenges, inspirations, and insights from the past, readers will be better poised to address new and ongoing challenges within the field.

"Why a second edition of the text book - Goodman's Neurosurgery Oral Board Review? The American Board of Neurological Surgery Oral Examination is the important final step in the certification process of a neurosurgeon. The examination has been in a constant state of evolution over the last 75 years. A major change in the examination process occurred in 2017, and the details of this transition are nicely outlined in Chapter 1. In keeping with this significant change in the Oral Board Examination format - I felt that the Goodman course needed to change to keep up with the Examination - see Chapter 3. The 2nd

edition of the book now also reflects these updates with an emphasis on how to prepare for the current exam format. "--

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 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 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 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. 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 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 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, 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 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, Professor of Neurological Surgery and Rehab, Medicine Spine Fellowship Director, Chief of Neurosurgery, University of Miami Hospital and Miller School of Medicine, Miami, FL

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 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.

50 Studies Every Ophthalmologist Should Know presents key studies that have shaped the practice of ophthalmology. Selected using a rigorous methodology, emphasis has been placed on landmark studies which have influenced current ophthalmology practice

guidelines. For each study, a concise summary is presented with an emphasis on the results and limitations of the study, and its implications for practice. An illustrative clinical case concludes each review, followed by brief information on other relevant studies. This book is a must-read for ophthalmologists, especially those in training or preparing for board review, as well as anyone who wants to learn more about the data behind clinical practice.

50 Studies Every Neurologist Should Know presents key studies that shape the current clinical practice of neurology. All neurologic subspecialties are covered, with a special emphasis on neurocritical care and vascular neurology. For each study, a concise summary is presented with an emphasis on the results and limitations of the study, and its implications for practice. An illustrative clinical case concludes each review, followed by brief information on other relevant studies. This is the first book of its kind to present a collection of the most influential clinical trials in neurology that are detailed enough to be used on rounds, but still easily digestible. It is a must-read for health care professionals and anyone who wants to learn more about the data behind clinical practice.

Rheumatic disease is a major cause of morbidity and disability in the Western world. There have been major developments in our understanding of the causes of rheumatic disease and in their treatment during the last half-century, and there are relatively few papers which can be regarded as truly 'landmark' in their construction and subsequent findings. Part of the Landmark Papers in

series, this book provides a detailed review of the seminal papers that have paved the way for breakthroughs in the clinical management of the entire spectrum of rheumatic diseases.

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

Suitable for use on the ward and in clinical settings, this book includes information and clinical guidance passed down by generations of neurologists. It deals with taking a neurological history and examination, including the skills necessary to make a neurological assessment. Prepared by residents and attending physicians at Massachusetts General Hospital, this pocket-sized

looseleaf is one of the best-selling references for medical students, interns, and residents on the wards and candidates reviewing for internal medicine board exams. In bulleted lists, tables, and algorithms, Pocket Medicine provides key clinical information about common problems in internal medicine, cardiology, pulmonary medicine, gastroenterology, nephrology, hematology-oncology, infectious diseases, endocrinology, and rheumatology. This Fifth Edition is fully updated and includes a sixteen-page color insert with key and classic abnormal images. If you purchased a copy of Sabatine: Pocket Medicine 5e, ISBN 978-1-4511-8237-8, please make note of the following important correction on page 1-36: Oral anticoagulation (Chest 2012;141:e531S; EHJ 2012;33:2719; Circ 2013;127:1916) All valvular AF as stroke risk very high Nonvalv. AF: stroke risk ~4.5%/y; anticoag @ 68% ↓ stroke; use a risk score to guide Rx: CHADS2: CHF (1 point), HTN (1), Age ≥75 y (1), DM (1), prior Stroke/TIA (2) CHA2DS2-VASc: adds 65+74 y (1) =75 y (2), vasc dis. [MI, Ao plaque, or PAD (1)]; ? (1) score ≥2 @ anticoag; score 1 @ consider anticoag or ASA (? latter reasonable if risk factor age 65-74 y, vasc dis. or ?); antithrombotic Rx even if rhythm control [SCORE CORRECTED] Rx options: factor Xa or direct thrombin inhib (non-valv only; no monitoring required) or warfarin (INR 2-3; w/ UFH bridge if high risk of stroke); if Pt refuses anticoag, consider ASA + clopi or, even less effective, ASA alone (NEJM 2009;360:2066) Please make note of this correction in your copy of Sabatine: Pocket Medicine 5e immediately and contact LWW, Customer Service Department at 1.800.638.3030 or

1.301.223.2300 so that you may be issued a corrected page 1-36. You may also download a PDF of page 1-36 by clicking [HERE](#). All copies of Pocket Medicine, 5e with the ISBN: 978-1-4511-9378-7 include this correction.

This book illustrates and discusses key points related to intra- and postoperative complications of brain, spine and peripheral nerve surgery, and covers the majority of neurosurgical subspecialties, including skull base surgery, brain tumor surgery, vascular and endovascular neurosurgery, neuroendoscopy, functional neurosurgery, spine surgery, peripheral nerve surgery, radiosurgery and radiotherapy. In addition, it considers related medicolegal, ethical and philosophical aspects. Including material that represents the combined proceedings of the First International Conference on Complications in Neurosurgery (March 3-5, 2017; Mumbai, India) and the dedicated symposium "Complications in Neurosurgery" during the XVI Congress of the World Federation of Neurosurgical Societies (August 20-25, 2017; Istanbul, Turkey), the articles in this volume were written by recognized experts in the field and based both on their personal experience and the latest scientific evidence. It offers a valuable reference guide, providing detailed recommendations on the prevention and management of complications in neurosurgery.

"The Congress of Neurological Surgeons (CNS) 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 neurosurgery. The "CNS Essential Papers" project is

rooted in the culture of evidence-based medicine and data-driven decision making"--

The new edition of *So you want to be a brain surgeon?* continues to provide a fun yet informative guide for all medical students and for all those considering a medical degree. An entertaining, authoritative and indispensable guide for all levels, from those thinking of applying to medical school through to medical students and to young doctors. The text has been radically updated, and includes even more chapters.

Over the past two decades there have been major advances in the treatment of spinal disorders including anterior decompression of the neural structures as well as various forms of spinal stabilization by utilization of implants. These changes primarily reflect the development of better techniques of diagnosis and anesthesia, as well as new fusion procedures that are often supplemented with instrumentation. *Biomechanics of Spine Stabilization* bridges the gap that has existed between the physics of biomechanical research and the clinical arena. The book helps surgeons to plan treatments for the injured spine based on sound biomechanical principles - principles that will influence the surgeon's choice for the surgical approach, type of fusion and type of instrumentation. *Biomechanics of Spine Stabilization* begins with the essentials, proceeds gradually toward the development of an understanding of biomechanical principles, and, finally, provides a basis for clinical decision-making. These features make it a cover-to-cover must-read for anyone who is involved with the care of a patient with an unstable spine. Chocked full of illustrations, *Biomechanics of Spine Stabilization* includes: -Physical principles and kinematics -Segmental motion, stability and instability -Spine and neural element pathology -Surgical

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approaches and spinal fusion -Spinal instrumentation: General principles -Spinal instrumentation constructs: biomechanical attributes and clinical applications -Non-operative spinal stabilization -Special concepts and concerns -CD-ROM containing illustrations from book to create mental images of critical anatomical, biomechanical and clinical points

Unique neurointerventional surgery resource analyzes landmark literature to inform optimal patient management The field of neurointerventional surgery is rapidly expanding with an ever-accelerating pace of technological innovations. While industry plays a significant role in designing new technology and defining indications for its use, practitioners need to evaluate and determine the most efficacious treatments for their patients. Neurointerventional Surgery: An Evidence-Based Approach by renowned endovascular neurosurgeons Min Park, M. Yashar S. Kalani, and Michael F. Stiefel examines the most common disease states in neurointerventional surgery through a critical lens. The unique text leverages evidenced-based data to inform treatment decisions and improve patient outcomes. The text is organized by 5 sections and 32 chapters, including the latest state-of-the-art interventions. Each of the chapters provides critical analysis of the "landmark papers" that established the foundation and standards for modern neurointerventional practice. An example is the rapidly changing understanding of large vessel occlusions in ischemic stroke that now strongly supports mechanical thrombectomy as a viable and important part of the treatment armamentarium. Key Highlights Contributions from internationally recognized leaders in academic neurointerventional surgery provide insightful and analytic perspectives Encompasses the full continuum of neurointerventional procedures in one resource, from hemorrhagic and ischemic stroke to neoplasms and spine

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conditions The reader-friendly structure and chapter formatting facilitates understanding of often complicated decision-making The evidenced-based, multifaceted approach to neurointerventional surgery presented in this textbook makes it vital reading for residents, fellows, and practitioners in neurosurgery, as well as fellows in interventional neuroradiology and interventional neurology. In Computer-Integrated Surgery leading researchers and clinical practitioners describe the exciting new partnership that is being forged between surgeons and machines such as computers and robots, enabling them to perform certain skilled tasks better than either can do alone. The 19 chapters in part I, Technology, explore the components -- registration, basic tools for surgical planning, human-machine interfaces, robotic manipulators, safety -- that are the basis of computer-integrated surgery. These chapters provide essential background material needed to get up to speed on current work as well as a ready reference for those who are already active in the field. The 39 chapters in part II, Applications, cover eight clinical areas -- neurosurgery, orthopedics, eye surgery, dentistry, minimal access surgery, ENT surgery, craniofacial surgery, and radiotherapy -- with a concluding chapter on the high-tech operating room. Each section contains a brief introduction as well as at least one "requirements and opportunities" chapter written by a leading clinician in the area under discussion.

There has been an exponential increase in the volume and quality of published research relating to spine care over the last several decades. Among thousands of articles, a small fraction has been shown to be truly "game changing," forcing the entire field to pause and take notice. These landmark studies may describe a new procedure or surgical approach, evaluate the relative effects of known treatments or techniques, introduce a new classification system, or provide

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new insights into natural history or disease prognosis. Such studies form the foundations of spine surgery today. This book will be a useful reference not only to the established spine surgeon, but also to neurosurgery and orthopedic residents, as well as to spine surgery fellows as they continue to fortify their knowledge surrounding spinal disorders. Further, this will no doubt serve as a useful evidence-based resource for trainees studying for professional examinations and perhaps most importantly challenge and inspire clinicians to produce high-quality impactful research.

Pain Medicine, a relatively new specialty, has proven increasingly relevant to medical practitioners in every field. The specialism of pain has emerged over the past 50 years, largely due to the persistence of experts and new medical evidence that points to its necessity. Today, it is a distinct and integral part of global medical practice. Landmark Papers in Pain offers a comprehensive inventory of over 80 key studies in pain medicine from the last 100 years. Each paper is accompanied by a concise commentary on the significance of the original findings written by an expert in pain. The reviews discuss how the paper influenced the development of the speciality, and how the findings have advanced our global comprehension of pain. Together, the selected papers and reviews chart the growth of an embryonic field into the modern speciality of pain medicine. Compiled by leading specialists in the field, the papers included in this book are significant for any student, researcher, clinical practitioner, or medical historian interested in pain medicine. Organised into eight distinct topics and cross-referenced by topics and author of original paper, the book is comprehensive in its coverage and easy to use. A review of the contemporary and historical research that shaped the speciality of pain, Landmark Papers in Pain is essential reading for all medical practitioners with an interest in pain medicine.

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Pediatric neurosurgery is a uniquely exacting subspecialty in which surgeons are given the extraordinary privilege of alleviating suffering for gravely ill children, and in best-case scenarios, restoring their health. Understanding the vast and complex anatomy, pathology, and pathophysiology that evolves throughout childhood presents considerable challenges. Further, the field is rapidly progressing with advancements in neurodiagnostic imaging and surgical instrumentation, as well as an expanding knowledge of the molecular and genetic bases underlying many neurosurgical disorders. While this book's primary focus is on how to achieve technical excellence in the OR, this is a remarkably personal book about the art of pediatric neurosurgery. In it you will find wisdom gained from decades of experience. Read this book, use the knowledge you gain from it, and you will become a safer, more skillful neurosurgeon. Special Features: More than 800 stunning, full-color illustrations Online access to videos in which experts from all over the world demonstrate the operative nuances and techniques that help surgeons get patients safely in and out of the OR Written by master surgeons from 10 countries who share a wealth of insightful wisdom garnered from years of experience, refinement of surgical techniques, and development of numerous innovations Surgical pearls, operative nuances, procedural modifications, and techniques for avoiding and dealing with pitfalls This state-of-the-art volume is an unparalleled teaching tool that reveals invaluable tricks of the trade. It is an essential resource for pediatric and general neurosurgeons, neurosurgery residents and fellows. 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

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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 2e 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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