

Vertebrobasilar Ischemia And Hemorrhage

A comprehensive review of vascular disease in the vertebrobasilar circulation by one of the world's leading authorities, fully updated throughout.

Offered in print, online, and downloadable formats, this updated edition of *Stroke: Pathophysiology, Diagnosis, and Management* delivers convenient access to the latest research findings and management approaches for cerebrovascular disease. Picking up from where J. P. Mohr and colleagues left off, a new team of editors - Drs. Grotta, Albers, Broderick, Kasner, Lo, Mendelow, Sacco, and Wong - head the sixth edition of this classic text, which is authored by the world's foremost stroke experts. Comprehensive, expert clinical guidance enables you to recognize the clinical manifestations of stroke, use the latest laboratory and imaging studies to arrive at a diagnosis, and generate an effective medical and surgical treatment plan. Abundant full-color CT images and pathology slides help you make efficient and accurate diagnoses. Data from late-breaking endovascular trials equips you with recent findings. Includes comprehensive coverage of advances in molecular biology of cell death; risk factors and prevention; advances in diagnostics and stroke imaging; and therapeutic options, including a thorough review of thrombolytic agents and emerging data for endovascular therapy. Features brand-new chapters on Intracellular Signaling: Mediators and Protective Responses; The Neurovascular Unit and Responses to Ischemia; Mechanisms of Cerebral Hemorrhage; Stroke Related to Surgery and Other Procedures; Cryptogenic Stroke; and Interventions to Improve Recovery after Stroke. Highlights new information on genetic risk factors; primary prevention of stroke; infectious diseases and stroke; recovery interventions such as robotics, brain stimulation, and telerehabilitation; and trial design. Details advances in diagnostic tests, such as ultrasound, computed tomography (including CT angiography and CT perfusion), MRI (including MR perfusion techniques), and angiography. Includes extracted and highlighted evidence levels. Expert Consult eBook version included with print purchase. This enhanced eBook experience allows you to search all of the text, figures, and references on a variety of devices. The content can also be downloaded to tablets and smart phones for offline use. Combat stroke with the most comprehensive and updated multimedia resource on the pathophysiology, diagnosis, and management of stroke from leaders in the field

Most strokes are attributed to atherosclerosis of neck and intracranial arteries, brain embolism from the heart, and penetrating artery disease; these are discussed in detail in many other books. This compendium fills an important niche by providing authoritative discussions on the other, less common causes of stroke, including various forms of angiitis, coagulation disorders, infective, paraneoplastic and metabolic disorders that may be associated with stroke, and a number of rare syndromes such as Eales disease and Fabry's disease. This new edition contains detailed, up-to-date information about the nature, diagnosis, and treatment of those relatively uncommon types of cerebrovascular disease that cause strokes. It is therefore a unique scientific and clinical resource that provides a useful reference to help physicians diagnose and treat stroke patients who do not fit well into the usual clinical categories. New chapters include stroke in patients with Lyme disease, scleroderma, Cogan's syndrome, Chagas' disease, and HIV.

This volume provides a comprehensive guide to the manifestations and pathogenesis involved with stroke, including advancements in research and a newfound understanding of the biochemical background of this cerebrovascular disorder. This intensive handbook is meant to give clinicians a source reference that will enable them to gain a thorough knowledge and understanding of the clinical features and management of the many neurological manifestations of stroke disorder. In addition, practitioners, clinicians, and researchers will gain a better understanding of highly studied topics, including amongst others, the medical complications associated with stroke, chapters on anterior circulation and hemorrhagic stroke syndromes, stroke related psychiatric disorders, and other rare causes of stroke disorder. * A comprehensive source that thoroughly examines the neurological manifestations of stroke * A guide to highly studied topics, including stroke complications, syndromes, and stroke related psychiatric disorders * A better understanding of the pathophysiological basis of strokes that will help practitioners better diagnose, prevent, and improve patient care

Note to Readers: Publisher does not guarantee quality or access to any included digital components if book is purchased through a third-party seller. Praise for the Third Edition: "The author has done it again, producing an excellent, concise resource that provides clinicians with an optimal solution for studying for the written board examination." © Doody's Review Service, 2015, Alan Anshel, MD (Shirley Ryan AbilityLab) This fourth edition of the incomparable review bible for the Physical Medicine and Rehabilitation Board Examination has been thoroughly updated to reflect current practice and the core knowledge tested on the exam. Recognized for its organization, consistency, and clarity through editions, the book distills the essentials and provides focused reviews of all major PM&R topics including stroke, traumatic brain injury, musculoskeletal medicine, spinal cord injuries, pain management, and more. Every chapter in the fourth edition has been rigorously evaluated and refreshed to ensure that the information is accurate and up to date. Sections on cancer treatment and rehabilitation, rheumatologic disease, and ultrasound have been significantly upgraded to incorporate new board requirements and changes in criteria for diagnosis and management. Written in outline format for easy access to information, *Physical Medicine and Rehabilitation Board Review, Fourth Edition* is modeled on the content blueprint for the Self-Assessment Examination for Residents (SAE-R) used by residents nationwide. Board pearls are indicated with an open-book icon to highlight key concepts and flag important clinical and board-eligible aspects of each topic. The topics are divided into major subspecialty areas written by author teams with clinical expertise in the subject and reviewed by senior specialists in each area. More than 500 signature illustrations—now with color added—clarify and reinforce concepts. In addition to its proven value as the primary resource for Board preparation and MOC, the book is also a trusted clinical reference for day-to-day practice needs. New to the Fourth Edition: Thoroughly reviewed, revised, and updated to reflect current practice and core knowledge tested on Boards Significant upgrades to

ultrasound content Expanded sections on cancer treatments and rehabilitation along with rheumatologic guidelines and treatments, including new criteria for diagnosis Addition of color to highlight artwork and content areas Key Features: Board "Pearls" are highlighted with an open-book icon to flag key concepts and stress high-yield aspects of each topic Covers all topics on the content outline for the Self-Assessment Examination for Residents (SAE-R) used by residents nationwide Authored by physicians with special interest and expertise in their respective areas and reviewed by senior specialists in those areas Organizes information in outline format and by topic for easy reference Includes over 500 detailed illustrations to clarify concepts Provides updated epidemiologic and statistical data throughout

A Quick Reference Text! Easy to read and practical in design, Neurocritical Care is the book specialists will turn to for quick reference. It concentrates on management problems, from diagnostic procedures to therapeutic strategies. Exact descriptions are given for treatment procedures, and it is easy to find the appropriate treatment for a given patient. International Expertise! More than 100 authors from North America have contributed to the book. The different strategies used on either side of the Atlantic have been described, the sections on neuroimaging have been reviewed by a neuroradiologist. Comprehensive in Scope! Both frequent and rare neurological diseases that may require critical care treatment and subjects of more general interest such as monitoring strategies, ethical problems, brain death and neurological disorders in internal medicine have been covered. Pathophysiology is also discussed, inasmuch as it is important for understanding the treatment strategies.

This comprehensive volume is the current final word on the subject. It contains more than 90 papers, giving a summary of clinical and basic studies on cerebral vasospasm. It includes reviews by leading researchers in the field. Several new subjects are proposed for future research that will not only promote research from neurosurgery and neurology but also from other interconnecting fields of emergency medicine, electrophysiology, molecular biology, and vascular biology.

This market-leading guide covers all aspects of cerebrovascular disease, stroke syndromes, causes, prevention, evaluation and management.

This updated second edition of Acute Ischemic Stroke: Imaging and Intervention provides a comprehensive account of the state of the art in the diagnosis and treatment of acute ischemic stroke. The basic format of the first edition has been retained, with sections on fundamentals such as pathophysiology and causes, imaging techniques and interventions. However, each chapter has been revised to reflect the important recent progress in advanced neuroimaging and the use of interventional tools. In addition, a new chapter is included on the classification instruments for ischemic stroke and their use in predicting outcomes and therapeutic triage. All of the authors are internationally recognized experts and members of the interdisciplinary stroke team at the Massachusetts General Hospital and Harvard Medical School. The text is supported by numerous informative illustrations, and ease of reference is ensured through the inclusion of suitable tables. This book will serve as a unique source of up-to-date information for neurologists, emergency physicians, radiologists and other health care providers who care for the patient with acute ischemic stroke.

Intracranial atherosclerosis is the dominant cause of stroke in over 70% of the world's population. Globalization is leading to an increasingly heterogeneous society everywhere. Advances in imaging technology allow this previously inaccessible pathology to be clinically studied. Edited by internationally renowned clinicians, Intracranial Atherosclerosis is the first book to examine intracranial causes of stroke. Clinical practice is allied with basic science to guide all those with an interest in stroke on the diagnosis and management of intracranial atherosclerosis.

Accessible handbook covering the investigation, diagnosis and management of transient ischemic attacks and minor strokes.

This book highlights the latest developments in acute and delayed neurovascular injury studies including delayed cerebral vasospasm, early brain injury, micro-circulation compromise, spreading cortical depolarization, neuroinflammation, and long-term cognitive dysfunctions after subarachnoid hemorrhage. About 32 chapters cover original presentations from the 14th international conference on neurovascular events after subarachnoid hemorrhage, held in Los Angeles in October 2017. Neurosurgeons, neurologists, and neuro-ICU practitioners discuss clinical observations, new pilot treatments, clinical trials, academic and industrial interactions, including surgical and endovascular approaches, brain injury monitoring, new developments in brain imaging, ICU management, early brain injury scales and management, counter cortical depolarization management and anti-inflammation management. In addition, animal models used to study acute and delayed neurovascular events, the basic mechanisms of vascular, neuronal, and CSF physiology, new experimental treatment strategies, new frontiers in the treatment of neurovascular injuries, and new research directions are discussed.

This volume presents the latest data on recent achievements in new and emerging technologies for stroke biomarkers and innovations in stroke assessment. The topics discussed in this book explore the role of upcoming biomarkers in different types of stroke, and explores techniques that will allow researchers to be more effective when approaching clinical management and patient care. In Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to ensure successful results in the laboratory. Cutting-edge and comprehensive, Stroke Biomarkers is a valuable resource for both experimental and clinical scientists interested in expanding their knowledge in the field of stroke research.

Intracranial atherosclerosis is a leading cause of stroke in Asians and Africans. As these ethnic groups account for more than 70% of the world's population, it is in fact the major cause of ischemic stroke worldwide. This timely book provides readers with up-to-date knowledge of intracranial atherosclerosis, covering vascular anatomy, pathology, epidemiology, stroke mechanisms and syndromes, diagnostic methods as well as treatment strategies such as antithrombotics, angioplasty/stenting and surgery. Furthermore, nonatherosclerotic intracranial arterial diseases like Moyamoya disease, dissection, vasculitis and other miscellaneous disorders are extensively discussed. Experts from both East and West present the latest findings from cutting-edge research and discuss controversial topics from different yet balanced points of view, allowing readers to form their own unbiased opinion on these issues. With this approach, the book serves as a useful and stimulating guide on the diagnosis and management of intracranial atherosclerosis for neurologists, neurosurgeons, neuroradiologists and vascular interventionists.

Practical textbook aimed at doctors beginning work on a stroke unit or residents embarking on training in stroke care.

A comprehensive book that reviews advances in ocular motor research on topics of general interest, rare, specialized or unique conditions, and pertinent basic neuroscience. A rare collection with contributions from basic neuroscientists, neurologists, and ophthalmologists. Includes dedicated chapters on mathematical models, pharmacotherapy, neuromodulation, motion perception, visual influence on eye movement, physiology of strabismus, and microsaccades. This book is dedicated to David Robinson - one of the pioneers of contemporary ocular motor and vestibular neuroscience.

Stroke MRI is a new imaging tool providing detailed information of the pathophysiological aspects of cerebral ischemia. This book - with CD-ROM - includes a case collection of 25 hyperacute stroke patients, all imaged within six hours of stroke onset with a complete stroke MRI protocol. Stroke MRI and the established clinical methods are compared and recent results from single and multicenter trials are presented to

demonstrate the advantages of MRI for stroke patients. The CD-ROM contains diffusion-, T2-, T2*-perfusion-weighted images and MR angiography. The CD and the book are complementary to avoid redundancy as far as possible.

Over the past three decades, the diagnosis and treatment of stroke has changed at a phenomenal rate since the first use of CT scans and early studies using thrombolytic agents. New investigative procedures help direct patient selection for specific therapies and may substantially increase the chance of a successful therapeutic outcome. These advances in treatment have led to a paradigm shift in the way stroke victims are diagnosed and cared for. This volume covers the basics of vascular anatomy, stroke pathophysiology, ischemic stroke syndromes and current treatment.

Up-to-date discussion of the etiology, diagnosis, treatment, and prevention of this common cause of stroke and cognitive impairment. An essential companion for busy professionals seeking to navigate stroke-related clinical situations successfully and make quick informed treatment decisions.

More than 300 diagnoses that are delineated, referenced, and lavishly illustrated highlight the third edition of this bestselling reference. World-renowned authority Dr. Anne G. Osborn and her expert author team of Drs. Karen L. Salzman and Miral D. Jhaveri provide carefully updated information in a concise, bulleted format, keeping you current with new disease entities and syndromes, MR imaging techniques and applications, and pathology relevant to brain imaging. Succinct text, outstanding illustrations, and up-to-date content make this title a must-have reference for neuroradiologists, general radiologists, neurologists, and neurosurgeons. Concise, bulleted text provides efficient information on more than 300 diagnoses that are clearly illustrated with 2,500 superb images. Meticulously updated throughout, with new diagnoses and hundreds of new images that provide the most current information in the field. Expert guidance on CLIPPERS, second-impact syndrome in trauma, perfusion MR for tumor characterization, susceptibility-weighted imaging in stroke and brain bleeds, and molecular markers in brain tumor classification and grading. Updated coverage of brain trauma addresses newly recognized entities, techniques and imaging for rapid stroke triage, and functional imaging and dementia diagnosis.

This book covers all aspects and the most vibrant topics of ischemic stroke research: from basic sciences to latest methods of clinical applications. The authors give an overview of what has importance today in stroke research and also strike future ideas. The diversity of origin of the internationally known authors underlines not only that ischemic stroke research is nowadays global but also that this diversity gives new and valuable inputs to treat our patients.

Part of the successful Requisites series, this best-selling title presents everything you need to know about diagnostic imaging of the most commonly encountered neurologic and head and neck conditions.....one book that covers brain, spine, head and neck with an engaging approach. --

Vertebrobasilar Ischemia and Hemorrhage Cambridge University Press

Through nine outstanding editions, Rutherford's Vascular Surgery and Endovascular Therapy has been the gold standard text in this fast-changing, complex field. Published in association with the Society for Vascular Surgery, this state-of-the-art reference by Drs. Anton N. Sidawy and Bruce A. Perler is a must-have for vascular surgeons, interventionalists, vascular medicine specialists, and trainees, as well as general surgeons, interventional radiologists, and cardiologists that depend upon "Rutherford's" in their practice. It offers authoritative guidance from the most respected and innovative global thought leaders and clinical and basic science experts in the diagnosis and treatment of circulatory disease. Incorporates medical, endovascular, and surgical treatment, as well as diagnostic techniques, decision making, and fundamental vascular biology. Features all vascular imaging techniques, offering a non-invasive evaluation of both the morphology and hemodynamics of the vascular system. Provides unparalleled insight from multidisciplinary leaders worldwide, who share their expertise on the most appropriate contemporary and future treatment of circulatory disease. Employs a full-color layout and images so you can view clinical and physical findings and operative techniques more vividly. Includes 40 new chapters incorporating a shorter, more focused format with a summary for each chapter that provides a quick access to key information – ideal for consultation situations as well as daily practice. Some of these chapters are organized in new sections dedicated to open operative exposure and vessel dissection techniques, diabetic foot, Pediatric Vascular Disease, and practice management issues; areas in the specialty that clinicians frequently face but seldom detailed in other vascular texts nor in earlier Rutherford editions. Covers hot topics such as endovascular therapy of aortic arch and thoracoabdominal aortic aneurysm disease, including the evolving management of aortic dissections.

Posterior Circulation Disease is an authoritative, comprehensive, scholarly reference on vertebrobasilar disease. The book presents detailed descriptions of the anatomy and clinical correlations of the different stroke syndromes. The book begins with introductory chapters on anatomy and pathology, including a chapter devoted to evaluation. Later chapters discussing hemorrhage, aneurysm, and occlusion are divided according to location. Diagnosis, treatment and the general principles of imaging are also included to reflect the changing technology, (MRI, MRA) and transcranial Doppler. Posterior disease, (syncope and dizziness) is also fully discussed. The text emphasizes the clinical aspects of the disease and its management and includes discussions on the most advanced technology such as ultrasound, CT, angiography, PET and MRI.

Neurosurgical vignettes in question and answer format provide robust prep for the ABNS oral exam! Neurosurgery Case Review: Questions and Answers, 2nd Edition by Remi Nader, Abdulrahman Sabbagh, Samer Elbabaa, Hosam Al-Jehani, Jaime Gasco, and Cristian Gragnaniello provides a robust study guide for the American Board Neurological Surgery and the Royal College of Physicians and Surgeons of Canada oral board examinations. The second edition expands on the highly successful first edition, presenting 148 cases commonly encountered by neurosurgeons in clinical practice. The cases are broadly divided into seven sections—tumor, vascular intracranial pathology, trauma, pediatric, functional, spine, and peripheral nerves. The chapters are arranged in a manner that mirrors the oral board exam. Each case includes a brief clinical scenario followed by questions on presentation, diagnosis, imaging, management, surgical detail, complications, and outcome. The presented information is backed by the latest available evidence-based references and data. Key Features: Contributions from internationally renowned neurosurgical educators Detailed answers enhance readers' knowledge and provide guidance on how to respond to questions asked in the oral board exams More than 750 high-quality images, many in full color, ensure visual understanding of key concepts Suggested readings at the end of cases offer additional study resources This is an indispensable, one-stop resource for neurosurgical residents and fellows prepping for the ABNS and Royal College oral board examinations. Neurosurgeons studying for recertification will also find this book an invaluable reference for rapid review.

The age-standardized mortality rate for hemorrhagic stroke has decreased worldwide over the past two decades, but incidence, number of deaths, and lost disability-adjusted life-years (DALY) continue to increase. Moreover, hemorrhagic stroke occurs half as frequently globally as ischemic stroke, but causes significantly more deaths and lost DALY. Milestone studies of the past decade - STICH, FAST, and INTERACT2 - indicate the importance of hyperacute care for intracerebral hemorrhage; despite this, there is to date no established strategy for patients analogous to reperfusion therapy for ischemic stroke. This book, written by world-renowned experts, covers all current topics related to the diagnosis and management of intracerebral hemorrhage. It will contribute to an improved understanding of current and future aspects concerning optimal management of patients. This is a comprehensive, up-to-date resource for neurologists, neurosurgeons and trainees. Management of carotid and vertebral artery disease has undergone tremendous strides since the introduction of thin section CT angiography and neurointerventions. These minimally invasive techniques continue to evolve allowing great advantages for patients. In this book we will focus on both endovascular (minimally invasive) and open arterial reconstructions as both types of procedures are still very much part of

routine practice in managing extracranial carotid and vertebral artery disease. This text is designed to be a comprehensive and state-of-the-art approach in managing straight forward to complex arterial reconstructions. Sections will focus on carotid/vertebral anatomy, physiology, diagnostic modalities. Subsequent chapters will focus on specific disease processes and their management with best medical therapy neurointerventions (carotid artery stenting) and open reconstructions like carotid endarterectomy and arterial reconstructions for vertebral artery disease. In addition, management of extracranial carotid artery aneurysms, carotid body tumors and carotid trauma will be covered in detail. Modern techniques in rehabilitation practice for stroke patients will also be addressed. The authors will be recognized experts in their field, whether an acknowledged academic leader or a well respected community based surgeon. Each chapter dealing with clinical pathology will address patient selection, preoperative considerations, technical steps for operation and emphasis on avoiding complications.

Management of common complications related to each procedure will be outlined in a step-wise fashion. Pertinent case illustrations will be described in short at the end of the chapter. Figures and illustrations will help the reader in grasping the technique of a particular procedure. This new review textbook, written by residents and an experienced faculty member from Cleveland Clinic, is designed to ensure success on all sorts of standardized neurology examinations. Presented in a comprehensive question-and-answer format, with detailed rationales, *Comprehensive Review in Clinical Neurology* is a must-have for both aspiring and practicing neurologists and psychiatrists preparation to take the RITE, the American Board of Psychiatry and Neurology written exams, and various recertification exams.

This book contains articles presented at the 12th International Conference on Cerebral Vasospasm, held in Lucerne, Switzerland, in July 2013. The included papers represent a balanced cross-section of the enormous progress achieved in basic and clinical research on aneurysmal subarachnoid hemorrhage and its sequelae, including early neurovascular events and delayed cerebral vasospasm. The section on basic research covers a broad range of aspects, with a special focus on animal models for the study of acute events after experimental subarachnoid hemorrhage. The section on clinical topics encompasses imaging and endovascular management, surgical innovations and techniques, management and monitoring in neurocritical care, the status of clinical trials, and factors involved in aneurysm formation. This edition is of interest not only for basic researchers but also for clinicians who wish to apply state-of-the-art knowledge to the research and management of this devastating condition.

During the last three decades, many laboratories worldwide have dedicated their research activities to understanding the roles of the cerebellum in motor control, cognitive processes and the biology of mental processes, behavioral symptoms and emotion. These advances have been associated with discoveries of new clinical disorders, in particular in the field of genetic ataxias, and the growing number of diseases presents a source of difficulty for clinicians during daily practice. This practical guide summarizes and evaluates current knowledge in the field of cerebellar disorders. Encompassing details of both common and uncommon cerebellar ataxias, including vascular, immune, neoplastic, infectious, traumatic, toxic and inherited disorders, this book will assist clinicians in the diagnosis and management of the full spectrum of cerebellar ataxias encountered in daily practice. Essential reading for clinicians, including general practitioners, neurologists, pediatricians, radiologists, psychiatrists and neuropsychologists, this will also prove a valuable tool for students, trainees and researchers. *Primer on Cerebrovascular Diseases, Second Edition*, is a handy reference source for scientists, students, and physicians needing reliable, up-to-date information on basic mechanisms, physiology, pathophysiology, and medical issues related to brain vasculature. The book consists of short, specific chapters written by international experts on cerebral vasculature, presenting the information in a comprehensive and easily accessible manner. Numerous changes have occurred in the field since the publication of the first edition in 1997, particularly our understanding of the genetic aspects of cerebrovascular disease. This updated edition reflects the advances made over the last two decades, not only demonstrating the promise for therapy, but also for a molecular understanding of cerebrovascular diseases. The new edition includes new and expanded topics, including carotid stenting, iatrogenic causes of stroke, axonal transport and injury, RNAs, proteomics, and more. Provides concise chapters on topics in cerebral blood flow and metabolism, pathogenesis of cerebrovascular disorders, diagnostic testing, and management in a comprehensive and accessible format Written by international leading authorities on cerebral vasculature Provides up-to-date information on practical applications of basic research and the main clinical issues facing the community, such as axonal transport and proteomics

During the last decade scientists in both basic and clinical research have renewed their interest in the potential role of thrombolytic therapy in the treatment of acute ischemic stroke. The reevaluation of this approach was kindled by our growing knowledge of the pathogenesis of thrombotic and embolic stroke and by the development of new thrombolytic agents. With no proven therapy for acute ischemic stroke available, the potential value of early pharmacologic recanalization of occluded vessels in the management of acute stroke patients - an approach that has been supported by animal experiments and a limited number of uncontrolled clinical pilot studies - is again under scrutiny. A symposium on "Thrombolysis in Acute Cerebral Ischemia" was held in Heidelberg, Germany, in May 1990 to summarize and discuss the pathophysiological background for thrombolysis in acute ischemic stroke and the recent experimental and clinical experience with the new generation of thrombolytic agents. The editors are fortunate to be able to include authoritative manuscripts from almost all the speakers at the symposium. These include reports of work by the most active investigators in this challenging field. The editors wish to express their gratitude to all the contributors for the additional work they have undertaken. Additionally, we would like to thank Springer-Verlag, Heidelberg, for its generous assistance in the preparation and rapid publication of this volume. Heidelberg, August 1990 WERNER HACKE GREGORY J. DEL ZOPPO MATTHIAS HIRSCHBERG Contents I.

Brain, Part 1 of The Netter Collection of Medical Illustrations: Nervous System, 2nd Edition, provides a highly visual guide to this complex organ, from basic neurodevelopment, neuroanatomy, neurophysiology, and cognition to classic disorders including to epilepsy, hypothalamus/pituitary with disorders of consciousness and sleep, movement disorders, cerebellum, stroke, multiple sclerosis, neurologic infections, neuro-oncology, headaches, and brain trauma. This spectacularly illustrated volume in the masterwork known as the (CIBA) Netter "Green Books" has been expanded and revised by Drs. H. Royden Jones, Jr., Ted M. Burns, Michael J. Aminoff, and Scott L. Pomeroy to mirror the many exciting advances in medicine and imaging - offering unparalleled insights into the broad clinical spectrum of brain disorders. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Get complete, integrated visual guidance on the brain with thorough, richly illustrated coverage. Quickly understand complex

topics thanks to a concise text-atlas format that provides a context bridge between primary and specialized medicine. Clearly visualize how core concepts of anatomy, physiology, and other basic sciences correlate across disciplines. Benefit from matchless Netter illustrations that offer precision, clarity, detail and realism as they provide a visual approach to the clinical presentation and care of the patient. Gain a rich clinical view of all aspects of the brain in one comprehensive volume, conveyed through beautiful illustrations as well as up-to-date radiologic images. Clearly see the connection between basic science and clinical practice with an integrated overview of normal structure and function as it relates to pathologic conditions. Grasp current clinical concepts regarding development, pediatrics, and adult medicine captured in classic Netter illustrations, as well as new illustrations created specifically for this volume by artist-physician Carlos Machado, MD, and others working in the Netter style.

Topics include: Pediatric Stroke; Stroke Mimics; Intracranial Hemorrhage; Transient Ischemic Attack; Intensive Care Management of Acute Ischemic Stroke; Endovascular and Neurosurgical Management of Acute Ischemic Stroke; Intravenous Thrombolysis in Acute Ischemic Stroke; Vertigo, Vertebrobasilar Disease and Posterior Circulation Ischemic Stroke; and Neuroimaging in Acute Stroke.

Clinical case studies have long been recognized as a useful adjunct to problem-based learning and continuing professional development. They emphasize the need for clinical reasoning, integrative thinking, problem-solving, communication, teamwork and self-directed learning – all desirable generic skills for health care professionals. This book is a teaching tool that bridges the gap between textbook information and everyday experience of clinicians 'in the trenches'. Leading practitioners bring a practical approach to these complex conditions, highlighting specific areas of diagnostic uncertainty in evaluation and treatment. Each case is taken from real-world clinical practice and reviews the diagnostic and treatment process in a systematic manner, identifying common challenges and potential pitfalls. This concise and useful guide in the Common Pitfalls series provides a step-by-step guide for everyday clinical practice, invaluable to anyone dealing with cerebrovascular disease on a front-line basis. The intended readership is trainees and non-specialist practitioners in neurology, stroke medicine, and neurosurgery.

This book deals with neuroimaging of the brain, head, neck, and spine. During the last few years, there have been considerable advances in this subject, driven by clinical as well as technological developments. The authors, internationally renowned experts in their field, have contributed chapters that are disease-oriented and cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As a result, this book offers a comprehensive review of the state of the art in neuroimaging. It is particularly relevant for general radiologists, radiology residents, neurologists, neurosurgeons, and other clinicians wishing to update their knowledge in this discipline.

"The first two editions of Stroke Syndromes were widely welcomed as authoritative reference works in the assessment and diagnosis of stroke. This revised and updated third edition remains the definitive guide to patterns and syndromes in stroke. A comprehensive survey of all types of neurological, neurophysiological and other clinical dysfunction due to stroke. The book contains descriptions of clinical problems encountered in stroke patients and their differential diagnosis, enhancing pattern recognition and enabling clinicians to differentiate between possible locations on the basis of symptoms and signs. The companion volume Uncommon Causes of Stroke completes this highly authoritative reference work which clinicians in neurology will find essential to the understanding and diagnosis of stroke"--

Owing to the increased interest in brain ischemia and the new therapeutic options from pharmaceutical companies for the treatment of acute stroke, Professor Julien Bogousslavsky, one of the world's stroke experts, has revised his best-selling book. It is the emergence of huge possibilities in the management of stroke - ultra-early diagnosis, intensive care, surgical and other interventional therapies, thrombolysis, anti-ischemic drugs and prevention of immediate recurrence - which necessitates this timely update.

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