

# Giant Intracranial Aneurysms A Case Based Atlas Of Imaging And Treatment

Neurological Research  
Neurosonology and  
Neuroimaging of Stroke  
Stroke E-Book  
Brain Imaging: Case Review Series E-Book  
Giant Intracranial Aneurysms  
Cerebral Aneurysms  
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Timing of Aneurysm Surgery  
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Cerebral Revascularization: Microsurgical and Endovascular Techniques  
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Neurosurgery of Complex Vascular Lesions and Tumors  
Neurologia Medico-chirurgica  
Computed Tomography & Magnetic Resonance Imaging Of The Whole Body E-Book  
Intracranial Aneurysms  
Textbook of Interventional Neurology  
Endovascular Treatment of

# Online Library Giant Intracranial Aneurysms A Case Based Atlas Of Imaging And Treatment

Intracranial Aneurysms Neurosurgical Management of Aneurysmal Subarachnoid Haemorrhage Surgical Neuroangiography Giant Intracranial Aneurysms Surgery of Vertebrobasilar Aneurysms

## Neurological Research

Gives an account of clinical procedure. Based on the description of the functional anatomy of the craniofacial arteries given in Volume 1. Treats technical aspects such as patient preparation, technical equipment, embolic agent, and flow control as well as a description of the therapy for different kinds of tumors, fistulas, aneurysms, and vascular malformation.

## Neurosonology and Neuroimaging of Stroke

Volume IVB describes surgical approaches, strategies, and management techniques for specific tumors in their typical locations, surgical outcomes and results, instruments, and laboratory training. It covers also the related disciplines neuroradiology and neuroanesthesia. The last installment in this well-known series.

## Stroke E-Book

Surgical repair of cerebral aneurysms is a core aspect of neurosurgical practice. While open microvascular technique has dominated Western surgical practice,

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surgeons in the former USSR have developed endovascular techniques that have gained acceptance among surgeons here. This text demonstrates both surgical and endovascular approaches, written and illustrated by surgeons with vast experience in both, in a comparative context. The work is extensively illustrated with full-color surgical illustrations, line drawings, and radiographs.

### **Brain Imaging: Case Review Series E-Book**

### **Giant Intracranial Aneurysms**

Neurovascular medicine has emerged as an established, semi-independent subspecialty of neurology and neurosurgery. Decision Making in Neurovascular Disease focuses on the challenging process of determining the best approach for managing patients with intracranial atherosclerosis, carotid artery disease, stroke, aneurysms, arteriovenous malformations, arteriovenous fistulae, cavernous malformations, and hypervascular tumors. Leonardo Rangel-Castilla, Robert Spetzler, esteemed coauthors, and an impressive cadre of experts discuss highly divergent modalities including medical management, open cerebrovascular, endovascular, radiosurgery, and combined/multimodality alternatives. The book is organized into seven sections: Ischemic Stroke and Vascular Insufficiency, Aneurysms - Anterior Circulation, Aneurysms - Posterior Circulation, Aneurysms - Other,

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Arteriovenous Malformations and Fistula, Cavernous Malformations, and Hypervascular Tumors. Chapters include an introduction, decision-making algorithm, whether to treat, conservative management, anatomical considerations, clinical and imaging evaluation, differential diagnosis, treatment options, images, clinical and radiographic follow-up, and suggested reading. Key highlights Simple algorithms accompanying 71 chapters supported by the latest, most updated information in the literature More than 300 radiologic images help elucidate disease-specific treatment decision making Step-by-step guidance, clinical pearls, surgical nuances, complication avoidance, and evidence-based outcomes provide in-depth understanding Point/counterpoint expert commentary on each case provides balanced insights on potential implications of specific treatments This essential step-by-step book is a must-have for residents and fellows in neurosurgery, neurology, endovascular, interventional radiology, vascular neurology, and neurocritical care, as well as veteran clinicians in these specialties.

### **Cerebral Aneurysms**

A comprehensive review of current endovascular techniques for the treatment of cerebral aneurysms, this is a practical manual for those practicing, or intending to practice, this rapidly expanding branch of minimally invasive surgery. The authors provide descriptions based on an extensive combined experience of clinical management, technical problems, complications and recent results, and

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discuss the limitations and role of combined extravascular/endovascular techniques.

### **Neuroradiology Applications of High-Field MR Imaging, An Issue of Neuroimaging Clinics - E-Book**

This open access book presents the diagnosis, investigation and treatment of neurovascular diseases, and offers expert opinions and advice on avoiding complications in neurovascular surgery. It also covers complication management and post-operative follow-up care. The book is divided in to three parts; the first part discusses common approaches in neurovascular surgery, describing the steps, indications for and limitations of the approach, as well as the associated complications and how to avoid them. The second part addresses surgical treatment based on pathology, taking the different locations of lesions into consideration. The third part focuses on the technological developments that support neurovascular surgery, which may not be available everywhere, but have been included to help vascular surgeon understand the principles. This book is a guide for young neurosurgeons, neurosurgery residents and neurosurgery fellows, as well as for medical students and nurses who are interested in neurosurgery or are associated with this field in any way. It is also a useful teaching aid for senior neurosurgeons.

### **Neurovascular Imaging**

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This atlas focuses on the imaging and treatment options available for giant intracranial aneurysms since 1990s in the beginning of the so-called modern endovascular era. During this period, there were significant advances made in the therapy of small intracranial aneurysms though the treatment of giant aneurysms continued to pose an insurmountable challenge. At the turn of this century, this grim scenario gradually improved with better understanding of the pathophysiology of giant intracranial aneurysms. This changed scenario in giant intracranial aneurysm therapy has been illustrated with the aid of informative clinical case studies. The clinical presentation of giant aneurysms in adults and children is described as are the merits of different imaging modalities explained and illustrated. Extensive consideration has been given to modern fusion imaging that has improved our insight into the nature of the disease. Endovascular treatment approaches (including illustrative open surgical approaches) and reconstructive and deconstructive strategies are fully documented, with careful attention given to factors that influence management strategies, treatment choice and complications. The atlas will be a valuable reference and practical aid for neuroradiologists, neurosurgeons, neurologists, fellowship trainees, postgraduate & graduate students.

## **Cumulated Index Medicus**

Cerebral Revascularization: Techniques in Extracranial-to-Intracranial Bypass Surgery, by Saleem I.

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Abdulrauf, MD, FACS, offers unmatched expert guidance. Through a series of dynamic, step-by-step instructional videos of the most common and uncommon procedures, you will deepen your understanding of these techniques and be able to confidently perform them. Edited and written by international leaders in neurosurgery, this definitive reference - with a foreword written by M. Gazi Yasargil, MD creator of the procedure - is the first and only text entirely dedicated to this surgery and provides you with exclusive, authoritative information. Access the full text, video library, and reference links to PubMed at [www.expertconsult.com](http://www.expertconsult.com). Sharpen your skills in Extracranial-to-Intracranial (EC-IC) Bypass Surgery with help from the first and only text entirely dedicated to this quickly evolving procedure. Get exclusive, first-hand expert knowledge from a an internationally renowned team of editors and contributors, all leaders in cerebrovascular care. See key EC-IC bypass procedures performed in detailed, step-by-step instructional video clips. Access the full text online including the complete video library, reference lists, and additional online-only information at [www.expertconsult.com](http://www.expertconsult.com).

### **Timing of Aneurysm Surgery**

Now more streamlined and focused than ever before, the 6th edition of CT and MRI of the Whole Body is a definitive reference that provides you with an enhanced understanding of advances in CT and MR imaging, delivered by a new team of international associate editors. Perfect for radiologists who need a

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comprehensive reference while working on difficult cases, it presents a complete yet concise overview of imaging applications, findings, and interpretation in every anatomic area. The new edition of this classic reference — released in its 40th year in print — is a must-have resource, now brought fully up to date for today's radiology practice. Includes both MR and CT imaging applications, allowing you to view correlated images for all areas of the body. Coverage of interventional procedures helps you apply image-guided techniques. Includes clinical manifestations of each disease with cancer staging integrated throughout. Over 5,200 high quality CT, MR, and hybrid technology images in one definitive reference. For the radiologist who needs information on the latest cutting-edge techniques in rapidly changing imaging technologies, such as CT, MRI, and PET/CT, and for the resident who needs a comprehensive resource that gives a broad overview of CT and MRI capabilities. Brand-new team of new international associate editors provides a unique global perspective on the use of CT and MRI across the world. Completely revised in a new, more succinct presentation without redundancies for faster access to critical content. Vastly expanded section on new MRI and CT technology keeps you current with continuously evolving innovations.

### **Glaucoma Surgery**

### **Cerebral Revascularization: Microsurgical and Endovascular**



## **Techniques**

Giant Intracranial Aneurysms discusses the numerous advances in the understanding of the pathophysiology, diagnosis, treatment and outcomes related to this serious and challenging problem. Written by acknowledged leaders in the field, Giant Intracranial Aneurysms is on its way to becoming the standard reference source on the subject for years to come. A sampling of the topics covered in Giant Intracranial Aneurysms include: Morphology and structural pathology Hemodynamics and pathophysiology of giant intracranial aneurysms Clinical manifestations Imaging and diagnostic evaluation Therapeutic strategies and treatment options Giant fusiform and serpentine aneurysms Endovascular treatment (Distributed by Thieme for the American Association of Neurological Surgeons)

## **Decision Making in Neurovascular Disease**

It is a great privilege to write the foreword for this classical work of Professor Charles Drake. There is no doubt that intracranial aneurysms have existed since the beginning of time. This terrifying disease of the brain arteries, with its dramatic consequences for the patient, has surely been observed in all human collectives, although clear definition and description in the literature began only 300 years ago. During the last century, clinical signs and symptoms have been carefully observed and analyzed, and 100 years ago, the first attempts were made for surgical treatment,

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such as the ligation of external and internal carotid and vertebral arteries. With the introduction of angiography, an entirely new dimension of diagnosis and differential diagnosis of the vascular diseases of CNS, was accomplished. In the years between 1945 and 1970, the neurosurgeon was increasingly stimulated to directly eliminate intracranial aneurysms. The most respected and avoided location, the aneurysms at the bifurcation of the basilar artery, remained as a "dark corner. " Several pioneers of neurosurgery attempted to explore the interpeduncular fossa, but finally retreated. Not so Charles Drake. His vision must have been stronger than his anxiety, after experiences of initial fatalities, to persevere more decisively in this desperate fight instead of to yield. Such steadfastness requires enormous courage. But what distinguishes courage! Surgical courage is not just a fearless or unscrupulous action.

### **TIA as Acute Cerebrovascular Syndrome**

This encyclopedic reference book on the treatment of intracranial aneurysms offers a case-based approach to the subject that has the benefit of fully reflecting the highly individual technical and clinical challenges encountered in aneurysm patients. The book is structured by aneurysm location, ensuring ease of use. Readers will find solutions for most clinical situations that they may encounter. Different treatment strategies are described, highlighting their respective pros and cons in particular circumstances. The coverage encompasses both basic techniques,

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such as coil occlusion and parent vessel occlusion, and the latest developments, including extra- and intrasaccular flow diversion, intrasaccular flow disruption, bifurcation stenting, and hybrid procedures combining microsurgical and endovascular elements. Potential procedural complications are identified, and bail-out strategies to anticipate, avoid, and solve major issues are described. The authors are all respected experts in the field, and the book will be of value to vascular and endovascular neurosurgeons, interventional neuroradiologists and neurologists, stroke neurologists, and other practitioners at all levels of experience.

### **Neurovascular Surgery**

Information for neuroimaging specialists includes a "Diagnostic Checklist or "Clinical Recommendations along with tables presenting recommended MR sequences and protocols. The primary focus of the issue is 3.0T; one article specifically deals with 7T and higher fields are mentioned sporadically throughout. Topics include: Tumor High-Field MR; Stroke High-Field MR; High-Field MR of Inflammation; Vascular Disorders: MR Angiography of Brain Vessels, MR Angiography of Neck Vessels, and Perfusion Imaging; Plaque Imaging; Neurodegenerative Disease; Epilepsy Imaging; Head and Neck Oncology Applications; Pediatric High-Field Imaging; Spine High-Field Imaging; Ultra High-Field Imaging; Future Perspectives on High-Field MR

## **Neurovascular Surgical Techniques**

Comprehensive guide to the latest techniques in neurovascular surgery, covering a wide range of neurovascular diseases in both open surgical and endovascular aspects of treatment.

## **Pediatric Stroke and Cerebrovascular Disorders**

This book of 85 index cases is organized by clinical presentations that simulate real-life radiology practice in the emergency department. Companion cases spanning the differential diagnoses and spectrum of disease provide hundreds more examples for a fast, focused, effective education we like to call COFFEE (Case-Oriented Fast Focused Effective Education).

## **Aneurysms Affecting the Nervous System**

Endovascular intervention - using medication and devices introduced through catheters or microcatheters placed into the blood vessels through a percutaneous approach - has emerged as a relatively new minimally invasive approach to treat cerebrovascular disease and possibly intracranial neoplasms. This textbook provides a comprehensive review of principles pertinent to endovascular treatment of cerebrovascular diseases and intracranial tumors, with a detailed description of techniques for these procedures and periprocedural management strategies. Particular emphasis is placed

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on expert interpretation of the quality of evidence provided and implications for practice related to endovascular procedures. This will be essential reading for clinicians working in interventional neurology and cardiology, endovascular neurosurgery, vascular surgery and neuroradiology.

### **Management of Cerebrovascular Disorders**

Praise for this book: An excellent textbook accompanied by high quality illustrations illustrating clinical applications, [and the] advantages and limitations of ultrasound examinations of the central nervous system.--RAD Magazine

Neurosonology and Neuroimaging of Stroke is a comprehensive reference for the diagnosis and management of cerebrovascular disease using neurosonology. Divided into two main parts, the book opens with an in-depth overview of the fundamental principles of neurosonology. It describes ultrasound anatomy, examination techniques, the essential technical concepts for clinical applications, as well as the pathogenesis of stroke and vascular pathology. The second part of the book presents 30 cases of various levels of difficulty. For each case, the book provides concise descriptions of clinical presentation, initial neuroradiological findings, suspected diagnosis, the angiological questions, and final diagnosis. Each case concludes with a detailed discussion, enabling the clinician to gain a solid understanding of the diagnosed disease and the angiologic questions arising from the case.

Features: Practical discussion of 30 clinical scenarios

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thoroughly prepares the clinician for the range of frequently encountered problems Consistent presentation aids rapid reference to cases of interest More than 750 high-quality illustrations, including full-color Doppler images Nearly 100 video clips on the accompanying MediaCenter web page demonstrate anatomy, imaging concepts, and select cases included in the book A reference and casebook in a single volume, Neurosonology and Neuroimaging of Stroke is ideal for clinicians seeking to optimize care for patients by enhancing their knowledge of this important diagnostic tool.

### **Intracranial Vascular Malformations and Aneurysms**

Transient ischemic attack (TIA) is well known to be a prodromal syndrome of ischemic stroke. However, TIA is easily neglected or underestimated by patients or even general physicians because the symptoms naturally disappear without treatment. Despite this, early after the onset of TIA the patients are at very high risk of stroke. As it is not possible to differentiate TIA from acute ischemic stroke (AIS) only by the duration of symptoms, both TIA and AIS should be recognized on the same spectrum of acute ischemic syndrome in the central nervous system. This book presents the new concept 'acute cerebrovascular syndrome' (ACVS), which includes both TIA in acute settings and AIS. The publication covers all topics of TIA in ACVS, which includes the definition, concept, etiology, epidemiology, symptomatology, risk scores, neuroimaging, neurosonology, acute management,

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primary and secondary prevention, and guidelines. Written by leading international experts in the field, the publication presents valuable and essential information for neurologists, general practitioners, neurosurgeons, radiologists, students, and nurses, in both clinical practice and research.

## **Toole's Cerebrovascular Disorders**

The first aneurysms explored by such pioneers of neurosurgery as Cushing and Dandy were the giant intracranial aneurysms. These giant aneurysms present many therapeutic difficulties and, because of their unique anatomical features and size, may present in a multitude of ways. With the advent of specialized imaging techniques such as computed tomography (CT), magnetic resonance imaging (MRI) and selective angiography, preoperative diagnosis today is most often accomplished without difficulty. However, completely thrombosed giant aneurysms may mimic other lesions with mass effect (such as basilar meningiomas, chordomas or chondromas) and their true anatomical shapes and relations to other cranial structures can only be ascertained by direct operative inspection. Due to their morphological features (thrombosed, nonthrombosed, partially thrombosed, fusiform), anatomical variations and difficult locations, giant aneurysms present new challenges for the modern neurosurgeon. Although microsurgical techniques have rendered direct surgical treatment of giant intracranial aneurysms safer, elimination of the aneurysm without disturbing the hemodynamics continues to be problematic.

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Some of these lesions have relatively small necks and can therefore be clipped fairly easily. Others have large necks, are fusiform, or contain perforators; how best to treat these lesions is a question still unresolved by presentday neurosurgery.

### **Trends in the Management of Cerebrovascular Diseases**

This important title brings together a distinguished panel of thought-leaders, known for their insights into the development and application of minimally-invasive surgical and endovascular techniques, to provide a comprehensive and discerning compendium of our most current knowledge and state-of-the-art procedures in the management of cerebral vascular diseases. Written in a style that is accessible to students and experienced practitioners alike, the book covers all the important recent advances that have reshaped the field in dramatic ways.

Emphasizing how surgical and endovascular techniques are complementary, the volume includes illuminating chapters on the nexus of endovascular and conventional “open” cerebrovascular surgery, including patient assessment and practice in a hybrid operating environment, utilizing the best methods to achieve optimal outcomes. A major addition to the clinical literature, *Management of Cerebrovascular Disorders: A Comprehensive, Multidisciplinary Approach* will be of significant interest to neurosurgeons, neurologists, neuroradiologists, neurointensivists, students, residents, fellows, and specialized attending physicians.



## **Brain Imaging with MRI and CT**

This is the first organized book on complex, difficult and informative surgical cases submitted by specialists in neurosurgery from around the world. It will be a collection of difficult and complicated cases that were operated by eminent neurosurgeons. Each contributor will write one or two successful cases that he thinks were difficult and complex, and discuss the techniques and technologies used. This book is designed to carry the techniques, the knowledge and the experience of the surgically difficult and complex cases in the surgery of cerebrovascular diseases and brain tumors. The book includes two parts: cerebrovascular diseases and brain tumors. Each chapter is composed of 50 case reports written by world reknown neurosurgeons. A case report includes problem and tactics (of this case), case report (including history, operation, and postoperative course), and discussion and references (less than 10), all of which is followed by the comments from a neurosurgical specialist. The text is short and concise. Neuroimaging photographs and self-explanatory operative sketches are used to help readers better understand the content.

## **The Aneurysm Casebook**

This volume in the best-selling "Case Review" series uses hundreds of case studies to challenge your knowledge of a full range of topics in brain imaging. With 170 brand new cases, new coverage of MRA, CTA, MR spectroscopy and multi-detectors and over

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600 brilliant images, this is your ideal concise, economical, and user-friendly tool for self assessment in this specialty! Utilizes case studies organized into "Opening Round," "Fair Game," and "Challenge" sections, so you can test yourself at varying difficulty levels. Provides at-a-glance review/self-testing of brain imaging cases ideal for preparing for the boards in brain imaging, the CAQ exam for neuroradiology or for the general radiologist ready for re-certification. Mimics the official exam formats and daily practice environment by giving you cases/images as unknowns with three to four questions; then, on the flip side of the page, diagnosis, answers to the questions, additional commentary, and references to the corresponding volume in Elsevier's popular Requisites Series. Includes 600 state of the art images to effectively compliment and support the text and provide a clear picture of what you can expect, both in test-taking and in practice. Uses randomly organized cases so you can test yourself without the aid of logical organization by anatomy or disease type. Includes 170 new cases and over 50 new diagnoses so you can keep pace with the latest developments. Includes a greater emphasis on differential diagnosis. Adds coverage of MRA, CTA, MR spectroscopy and multi-detectors to keep you completely current. Provides all new images for existing entities. Adds cutting-edge coverage of neuro-imaging including spectroscopy, CTA, MRA, Functional imaging, tractography, perfusion and diffusion.

## **Surgical Management of Cerebrovascular Disease**

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Contains the proceedings of the 12th- annual meeting of the Japan Neurosurgical Society

## **Microneurosurgery of CNS Tumors**

First published in 1986 under the editorial direction of Dr. Henry J.M. Barnett, *Stroke: Pathophysiology, Diagnosis, and Management* continues to provide the dependable, current answers you need to effectively combat the increasing incidence of this disease. Dr. J.P. Mohr, together with new associate editors Philip A. Wolf, James C. Grotta, Michael A. Moskowitz, Marc Mayberg, and Rüdiger von Kummer as well as a multitude of expert contributors from around the world, offer you updated and expanded coverage of mechanisms of action of commonly used drugs, neuronal angiogenesis and stem cells, basic mechanisms of spasm and hemorrhage, prevention of stroke, genetics/predisposing risk factors, and much more, equipping you to understand the latest scientific discoveries and make effective use of the newest approaches to diagnosis and treatment. Gain fresh perspectives and up-to-date insights from the world's leading authorities on the pathophysiology, diagnosis, and management of stroke. Access the comprehensive, expert clinical guidance you need 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. Make efficient and accurate diagnoses with the aid of abundant full-color CT images and pathology slides. Stay up to date on hot topics such as mechanisms of action of commonly

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used drugs, neuronal angiogenesis and stem cells, basic mechanisms of spasm and hemorrhage, prevention of stroke, genetics/predisposing risk factors, and much more.

## **Giant Intracranial Aneurysms**

The complex, highly technological field of neurovascular surgery is quickly expanding, encompassing traditional surgical approaches, as well as endovascular and neurointerventional techniques. The last decade has seen increased cross-specialty interest in utilizing minimally invasive techniques to help prevent and treat cerebrovascular disease. Concurrently, there has been important research analyzing the efficacy of surgical methods versus endovascular approaches and the clip versus coil discussion is covered herein. Written by 21st Century pioneers in the field, this second, cutting-edge edition offers the latest science throughout 1,400 pages and a remarkable video library covering anatomy, diagnosis, epidemiology, history, treatment indications, technical nuances, outcomes, and complications. Internationally renowned experts from across the globe share clinical pearls and best practices, from the research lab to the ER to the OR. Medical, surgical, endovascular, cerebral revascularization, bypass surgery, radiation therapy, and other procedures are covered in depth. Evidence-based and transdisciplinary, the second edition covers the full spectrum of neurovascular pathologies, preoperatively and postoperatively, including: Ischemic Stroke and

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Vascular Insufficiency Cerebral and Spinal Aneurysms Cerebral and Spinal Arteriovenous Fistulae and Malformations Vascular Tumors Carotid Artery Disease Moya-Moya Disease Moya-Moya Disease Revascularization techniques Organized into 11 primary sections, 99 richly illustrated chapters, and more than 140 videos, this volume is an invaluable, one-stop reference tool. It is a must-have for general, vascular and endovascular neurosurgeons; interventional radiologists; neurologists; critical care practitioners; and neuro-rehabilitation specialists.

## **Neurovascular Surgery**

In July 2008, European and Japanese specialists in neurosurgery, neurology, interventional neuroradiology and neurointensive care joined together to discuss the latest developments in the management of cerebrovascular disorders at the 4th European Japanese Joint Conference on Stroke Surgery, held in Helsinki, Finland. This collection of papers from the meeting deal with aneurysm surgery and management of subarachnoid hemorrhage and stroke, arterial dissection, intracranial arteriovenous malformations and fistulas, and microneurosurgical bypass and revascularization techniques.

## **Cerebral Revascularization - E-Book**

## **Emergency Radiology COFFEE Case Book**

This is a proceeding book of 8th European-Japanese

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Cerebrovascular Congress (held in Zurich in 2016). Since many experts from Europe and Japan had very important and fruitful discussion on the management of cerebrovascular diseases, the proceeding book will be very attractive for the physicians and scientists of the area.

### **Neurosurgery of Complex Vascular Lesions and Tumors**

In Cerebral Revascularization: Microsurgical and Endovascular Techniques, renowned surgical experts combine their expertise to provide the most current and comprehensive coverage of open brain bypass and endovascular options currently available. A detailed introduction familiarizes readers with the various indications for these technically demanding procedures. Concise chapters then supply thorough coverage of surgical strategies, complications, and outcomes using case examples from the authors' own collections to help prepare readers for surgery. Enhancing the text throughout, operative photographs and angiographic images clearly demonstrate the pre-, peri-, and postoperative management of ischemic stroke, giant aneurysms, and the spectrum of complex cerebrovascular diseases. Features Extensive coverage of extracranial-intracranial bypass and the latest in endovascular therapy 369 high-quality operative photographs and endovascular images illustrate key concepts A unique emphasis on the vital role perioperative care plays in optimizing patient outcomes Neurosurgeons, residents, and fellows will regularly refer to this

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definitive guide in both the operating room and the catheterization lab. It is also an indispensable resource for interventional radiologists, neurologists, vascular neurosurgeons, or for anyone who needs to learn more about these cutting-edge cerebral revascularization techniques.

### **Neurologia Medico-chirurgica**

Toole's Cerebrovascular Disorders was the first modern book devoted to care of the stroke, originally published more than 40 years ago. This is a completely revised and updated sixth edition of the highly respected standard for stroke diagnosis and treatment. Dr James Toole has stayed on as a consultant for the text, and Drs E. Steve Roach, Kerstin Bettermann, and Jose Biller have reworked Dr Toole's book to include chapters on genetics, pregnancy-related stroke, and acute treatments. The practical focus of the book has not changed, retaining its emphasis on bedside diagnosis and treatment. Easily accessible both for stroke specialists and residents, the sixth edition has been modernized to keep pace with the rapid expansion of knowledge in stroke care and includes evidence-based recommendations, the latest technology and imaging, and risk factors. The text is supplemented with more than 200 images, many in color.

### **Computed Tomography & Magnetic Resonance Imaging Of The Whole Body E-Book**

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The comparison of MR images and cadaver microangiograms of the basal perforating arteries is crucial for understanding the courses and supply areas of these vessels and in turn, for diagnosing pathologies in this region. Divided into three sections- normal anatomy of brain vessels; neurovascular imaging in pathology; and anatomy and imaging of spinal vessels- Neurovascular Imaging contains a rich collection of images to teach the reader how to interpret MR images of the brain vessels and spinal vessels, and how to identify pathological signs. Written and edited by a group of highly acclaimed experts in the field, Neurovascular Imaging is an authoritative account of the interpretation of MR images of the brain vessels and spinal vessels, and is a valuable addition to the library of the diagnostic radiologist.

## **Intracranial Aneurysms**

Professor Fox has undertaken the monumental task of compiling the available data on intracranial arterial aneurysms. In his Preface, Dr. Fox has quoted Cannon and Rosenbluth in questioning where to stop. The magnitude and extent of the record. One can only document progress of the undertaking attest to the tremendous amount of information which has accumulated in the past few decades and to the rapid advances in this field. They have correctly made note that the overall morbidity has increased, particularly since the end of World



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and mortality of these aneurysm patients re War II. mains unacceptably high, largely as a result of Our heritage can be traced to many sources, the secondary complications of the subarach among whom should be mentioned such nota noid hemorrhage itself. More attention should bles as Willis, Quincke, Blackall, Moniz, Dott, be directed in the future to the recognition of Dandy, Hounsfield, and others. The modern era those patients with unruptured aneurysms and includes a number of investigators and clini those with minimal bleeds. Hopefully infor cians, some of whom have contributed to this mation will be forthcoming as to which indi magnificent tome. The bibliography of over viduals are at risk because of some unusual con 4000 references represents the increasing in genital, metabolic, or acquired defect.

### **Textbook of Interventional Neurology**

This book illustrates effective surgical techniques for treating glaucoma in a practical and easy to follow format. Within the various chapters the different steps for all surgical procedures are clearly described to guide the reader through each clinical presentation. There are many drawings with detailed explanations regarding incisional surgical techniques such as trabeculectomy, shunts and non perforating techniques, canaloplasty and modern Microinvasive Glaucoma Surgeries (MIGSs). Surgical anatomy, different anesthetic techniques, medical therapy, laser treatments and choice of treatment to contrast glaucoma are also explained throughout the book.

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Finally there are three chapters on the most modern and effective surgical procedures, drawn up by leading internationally renowned ophthalmologists. This book will be an essential clinical resource for a wide range of readers including ophthalmologists in training, experienced surgeons and glaucoma specialists.

### **Endovascular Treatment of Intracranial Aneurysms**

The small neck of the aneurysm afforded an easy surgical attack. An ordinary flat silver clip was placed over the sac and tightly compressed obliterated it completely. The clip was flush with the wall of the carotid artery. The sac, lateral to the silver clip, was then picked up with the forceps and thrombosed by the electrocautery. Walter Dandy reporting his successful operation of a posterior communicating aneurysm on March 23, 1937. Walter Dandy's patient left the hospital in good health 2 weeks later, and from his report one may gain the impression that the operation was an easy task. Despite continuous developments during the following decades, it was not until the introduction of the operating microscope and microsurgical techniques that surgical treatment was generally accepted. During the microsurgical era surgical results have continued to improve due to diagnostical, neuroanaesthesiological, and microsurgical refinements, and improved neurointensive care. Endovascular obliteration has become an important treatment alternative but this has not been included in this particular volume. The

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purpose of the present supplement of the ACTA NEUROCHIRURGICA is to review some of the elements in the neurosurgical management of patients with aneurysmal subarachnoid haemorrhage that are important for a successful outcome. Professor Helge Nornes has been a major force in the development of new techniques and research strategies in this area for a number of years and has recently retired from the National Hospital in Oslo.

## **Neurosurgical Management of Aneurysmal Subarachnoid Haemorrhage**

Most imaging books are ordered according to underlying etiology. However, in real life clinical practice, radiologists usually make their differential diagnoses according to the image patterns, as the etiology is often unknown. Brain Imaging with MRI and CT presents over 180 disease processes and normal variants, grouping entities by these basic patterns to accentuate differential diagnostic features. High quality CT and MRI scans show multiple typical and distinguishing images for each entity. Common and unusual clinical scenarios are described, including dilated perivascular spaces, capillary teleangiectasia, Susac's syndrome and desmoplastic infantile ganglioglioma. Both basic and advanced imaging techniques are used, reflecting the reality of clinical practice. This image-focused book emphasises the most pertinent clinical information relevant to the diagnostic process. Trainee and practising radiologists will find Brain Imaging with MRI and CT an invaluable and clinically relevant tool for learning and teaching.

## **Surgical Neuroangiography**

### **Giant Intracranial Aneurysms**

The new third edition of Pediatric Stroke and Cerebrovascular Disorders provides a modern clinical approach to managing stroke and other cerebrovascular problems in infants, children, and adolescents. Incorporating data from important clinical trials and case series, recommendations from the American Heart Association evidence-based paper on the management of pediatric stroke, and the latest information on new diagnostic techniques, the book offers a comprehensive analysis of the current thinking and practice by three physicians who have vast clinical experience in this challenging field. The third edition of this classic work has been completely updated and rewritten to reflect current science and practice. Covering occurrence, etiology, diagnosis, and treatment, this integrated state-of-the-art text is essential reading for anyone involved in the care of children with suspected stroke or other cerebrovascular abnormalities. The third edition of this classic work has been completely updated and rewritten to reflect current science and practice. An extensive, entirely new chapter on treatment provides specific guidance on when to use antiplatelet agents, anticoagulants, and thrombolytic agents in children and also includes a section on neurorehabilitation after stroke. An expanded and thoroughly updated diagnostic approach chapter covers the latest applications in stroke imaging such as computed

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tomography angiography, diffusion weighted MRI, and perfusion CT. The first chapter stresses the etiology and pathophysiology of childhood stroke as the basis for evaluations and treatment. Features of Pediatric Stroke and Cerebrovascular Disorders, Third Edition Include: Comprehensive in scope: detailed analysis of the pathogenesis, diagnosis, and treatment of cerebrovascular disorders in children with many evidence-based management guidelines The third edition has been updated to include recommendations from the AHA consensus guidelines All chapters in the third edition have been revised and updated An extensive, entirely new chapter on treatment provides specific guidance on when to use antiplatelet agents, anticoagulants, and thrombolytic agents in children Stresses the etiology and pathophysiology of childhood stroke as the basis for evaluation and treatment Maintains the practical, clinical flavor established in previous editions, with numerous illustrations and useful suggestions for patient care Written by internationally known stroke experts: Dr. Roach chaired the AHA panel that produced the consensus guidelines on childhood stroke and Drs. Lo and Heyer have published extensively on stroke and related topics

### **Surgery of Vertebrobasilar Aneurysms**

This book describes the pathoanatomical, pathophysiological, and imaging features of vascular malformations and aneurysms of the brain and the modern, minimally invasive endovascular methods and techniques employed in their treatment. All

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chapters in the second revised edition of this book have been thoroughly updated. Readers will find this clearly organized book is richly illustrated with numerous informative CT, MR and DSA images, including high-end 7-Tesla MR images.

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