Neurovascular Anatomy in Interventional Neuroradiology: A Case Based ApproachAuthor Timo Krings Published On June 2015

Interventional Neuroradiology: Neurointerventional Management
Tutorials in Endovascular Neurosurgery and Interventional Neuroradiology
Tutorials in Endovascular Neurosurgery and Interventional Neuroradiology: Practical Neuroangiography

100 Interesting Case Studies in Neurointervention: Tips and Tricks

The Neurosurgeon's Handbook: Clinical Vascular Anatomy and Variations
Handbook of Cerebrovascular Disease and Neurointerventional Techniques in Endovascular Neuroradiology
Handbook of Cerebrovascular Disease and Neurointerventional Techniques

Cerebral Angiography
Neurointerventional Techniques
Skull Base Imaging
Image-Guided Interventions
E-Book

Oxford Textbook of Stroke and Cerebrovascular Disease
Clinical Neuropathology
Interventional Radiology

Procedures in Biopsy and Drainage
Complications of Neuroendovascular Procedures

Vascular and Interventional Radiology: The Requisites

E-Book

Oxford Textbook of Vascular Neuroangiography
Neuroendovascular Surgery
Neurovascular Anatomy in Interventional Neuroradiology: A Case Based Approach

Vascular Imaging

Anatomical and angio-pathologic image correlates

Newly released clinical study results influencing neurointerventional practice

Information on emerging technologies in this rapidly advancing field

The Handbook is a vital resource for all clinicians involved in neurointerventional practice, including radiologists, neurosurgeons, neurologists, cardiology, and vascular surgeons.

Fully revised and updated, the Handbook serves as a practical guide to endovascular methods and as a concise reference for neurovascular anatomy and published data about cerebrovascular disease from a neurointerventionalist's perspective. Divided into three parts, the book covers:

1. Fundamentals of neurovascular anatomy and basic angiographic techniques; Interventional Techniques and endovascular methods, along with unique information and tips for daily practice; Specific disease states, with essential clinical information about commonly encountered conditions. New features in the 2nd edition include: Global GEMS that illuminate aspects of the field outside the United States; Anglo-anatomical and angio-pathologic image correlates; Newly released clinical study results influencing neurointerventional practice; Information on emerging technologies in this rapidly advancing field. The Handbook is a vital resource for all clinicians involved in neurointerventional practice, including radiologists, neurosurgeons, neurologists, cardiology, and vascular surgeons.

Ideal for DM and DNB in Neurology; Electrodagnostic Laboratories; Neurologists and MD (Physiology, Psychiatry and Medicine) Clinical neurophysiography has evolved as an extension of clinical examination. This book has three main parts of electrodagnosis -- nerve conduction, electromyography and evoked potentials. The emphasis is on correct method of conducting the test including pitfalls, precautions, and proper interpretation of the results. The normal values of various tests have been provided. The application of nerve conduction, electromyography and evoked potentials in various neurological disorders has been discussed for bedside application and clinical problem solving. The text is amply illustrated by relevant videos, CT and MRI scans, patients' photographs, charts, and tables. The book also provides up-to-date review of relevant clinical and electrophysiological literature, and histopathological correlation with electrodagnostic tests. These features make this book reader friendly for students and practitioners. Recent advances in clinical neurophysiology have been included in this edition a greatly help in bedside clinical decision making.

The go-to guide on safely performing state-of-the-art neuroendovascular procedures from top experts! Unlike traditional textbooks that detail natural history, physiology, and morphology, Video Atlas of Neuroendovascular Procedures presents basic and complex neuroendovascular procedures and cases with concise text and videos. Renowned neuroendovascular surgeons Leonardo Rangel-Castilla, Adrian Siddiqui, Elad Levy, and an impressive group of contributors have compiled the quintessential neuroendovascular resource. Organized into eight major subtopic sections, this superb video atlas covers a full spectrum of endovascular approaches to diagnose and treat intra- and extracranial neurovascular disease. The book starts with a section on vascular access and concludes with endovascular complications and management. Forty chapters includes succinct summaries, scientific procedural evidence, the rationale for endovascular intervention, anatomy, required medications, device selection, avoiding complications, and managing potential problems that can arise during procedures. The image-rich clinical cases feature insightful firsthand knowledge and pearls. Key Features More than 1,000 relevant, high quality neuroimaging findings and artist illustrations enhance understanding of impacted anatomy and approaches Specific techniques and key steps are brought to life through more than 140 outstanding videos narrated by highly experienced endovascular neurosurgeons — conveniently accessible via smart phones or tablets using QR technology Essential diagnostic procedures such as cerebral and spinal angiography, cerebral venogram, and balloon test occlusion Complex neuroendovascular procedures including various angioplasty and stenting approaches for extracranial vessel disease, carotid and vertebral arteries, and venous sinus; thrombectomy procedures to treat acute ischemic stroke; and coiling, flow diversion, and embolization techniques for intracranial aneurysms, brain/spinal AVMs and fistulas, and select CNS and extracranial tumors The content-rich reference is a must-have for all resident and veteran neurosurgeons, interventional radiologists, and neurologists. Learn to safely perform a wide array of cutting-edge neuroendovascular procedures — from access to closure — and achieve improved outcomes for your patients.

Vascular Neurology, Vascular Neurosurgery and Interventional Neuroradiology are independent fields with dedicated Training Programs. Neuroimaging, and in particular what we call "Neurovascular Imaging" is a unifying factor which can be considered the intersection of these three medical specialties. With this book we aim to cover thoroughly the imaging techniques, potentialities, and present and future applications as applied to all the vascular diseases of the central nervous system from the imaging point of view. This book will comprise eight main sections: (1) The Basics, (2) Arteries of the Head and Neck (3) The basics of Intracranial Arteries (4) Diseases of the vessels (5) Stroke Imaging (6) Veins Imaging (7) Spine Imaging (8) Pediatrics.

The Techniques in Interventional Radiology series of handbooks describes in detail the various interventional radiology procedures and therapies that are in current practice. The series comprises four titles, which in turn cover procedures in angioplasty and stenting, transcatheter embolization and therapy, biopsy and drainage and ablation. Forthcoming are volumes on pediatric interventional radiology and neurointerventional radiology. Each book is laid out in bullet point format, so that the desired information can be located quickly and easily. Interventional radiologists at all stages, from trainees through to specialists, will find this book a valuable asset for their practice. Interventional Radiology Procedures in Biopsy and Drainage presents the full array of operations using these techniques. The book is split into two sections -- one dedicated to biopsy procedures and the other to drainage procedures. Dr. Debra Gervais is Director of Pediatric Imaging and Associate Director of Abdominal Imaging and Intervention at Massachusetts General Hospital, Boston, Massachusetts, USA. Dr. Tarun Sabharwal is a Consultant Interventional Radiologist at Guy's and St Thomas' Hospital, London, UK.

Stroke is a major health concern worldwide, and the epidemiological data is staggering. One in six people will have a stroke during the course of their life; it is the second most common cause of death; and stroke also ranks second among causes contributing to the global burden of disability. However, the burden of stroke can be alleviated: it is potentially preventable, treatable, and possible to manage long term. Despite continuing advances in our knowledge about this disease, there is currently still a large evidence-to-clinical practice gap in all regions. The Oxford Textbook of Stroke and Cerebrovascular Disease is a comprehensive textbook on clinical stroke, covering all major aspects of cerebrovascular disease including...
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 neurologists 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 tumors. 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 neurosurgical characteristics, clinical management and decision making. Additional sections on operative treatment include the key 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.

Practical Neuroangiography, Second Edition is a complete, concise, current, practical, and richly illustrated guide to diagnostic and interventional neuroangiography and neurovascular disease. Techniques and safety chapters take readers through the actual hands-on experience in the angiography suite and specifically address issues concerning patient safety, radiation protection, complications, and outcome. Subsequent chapters describe and illustrate the entire gamut of neurovascular anatomy, anatomic variants, and pathology to help readers interpret neuroangiographic studies. This edition's expanded section on interventional neuroradiology covers the most common elective and emergent interventional procedures. The updated artwork includes over 1,000 photographs and diagrams, some in full-color or two-color.

Describes management of neuroendovascular complications, focusing on tips and tricks for 'bailout' procedures.

Interventional radiology has seen a dramatic increase in the number of minimally invasive therapies performed. Interventional radiology treatments now play a major role in many disease processes and continues to grow with new procedures added to the armamentarium of the interventional radiologist, almost on a yearly basis. There are many textbooks which are disease specific, which incorporate interventional radiology techniques. These books are important to understand the natural history, epidemiology, pathophysiology and diagnosis of disease processes. However, a detailed handbook that describes the technique of performing the various interventional radiology procedures is a useful addition to have in the Cath Lab, where information can be accessed easily before, during or even after a case. This technique-specific book is primarily of benefit to those in training in general radiology and more specifically for Residents and Fellows who are training in interventional radiology and who may be taking subspecialty certificate examinations in interventional radiology. In addition, this book will be of help to most practicing interventional radiologists, be they in private practice. This is the kind of book that can be left in the interventional lab and will be of benefit to ancillary staff, such as technicians/radiographers or nurses who are specialising in this discipline.

Describes management of neuroendovascular complications, focusing on tips and tricks for 'bailout' procedures.

A practical reference on the core procedures in neuroradiology - Neurointerventional Techniques: Tricks of the Trade is a guide to the procedures used in the growing neurointerventional subspecialty. The step-by-step, concise presentation of procedures, and the original line drawings and high-quality images, concisely distill a wealth of information, making it easy for both novice and expert neurointerventionists to review how procedures are performed. This book includes over 50 specific procedures as well as important chapters on access points, physiological testing, and pharmacology in the endovascular suite. Key Features: Written by leading experts in neurointerventional practice Strong emphasis on complication avoidance throughout the text Covers both basic and more complex neuroendovascular procedures Useful appendices are rich with information on catheters in easy-to-access tabular format as well as important guidance on intraoperative neurophysiologic monitoring as it applies to neuroradiological procedures Neurosurgeons and neurointerventionists at all levels, from residents learning procedures to experienced practitioners needing a quick refresher, will find this book to be an invaluable resource that they will consult frequently in clinical practice. Thieme eNeurosurgery is the world's most comprehensive neurosurgical resource online. For a free trial, go to: http://thieme.com/eneurotrial

Dr. Osborne's classic work, An Introduction to Cerebral Angiography, has now been completely revised, reorganized, and updated and expanded from an introductory book into a comprehensive, state-of-the-art reference on cerebral angiography. Coverage includes new information on vascular territories, film subtraction, and magnetic resonance angiography. The text is thoroughly illustrated with 1,200 radiographs and line drawings, all of them new to this volume. Boxed summaries are used throughout the text to highlight key points.

This case-based book presents detailed information on neurovascular anatomy in concise, easily digestible chapters that focus on the importance of understanding anatomy when performing neuroradiological procedures. The case discussions include modern examples of invasive and non-invasive angiographic techniques that are relevant for general radiologists and diagnostic neuroradiologists as well as interventionalists. This book gives readers the detailed knowledge of neurovascular anatomy that allows them to anticipate and avoid potential complications. All neuroradiologists, interventionalists, general radiologists, and diagnostic neuroradiologists, as well as residents and fellows in these specialties, will read this book cover to cover and frequently consult it for a quick review before performing procedures.

The methods of interventional neuroradiology represent a distinct and difficult branch with in the new field of interventional radiology. The editor of this volume, Anton Valavanis, is a pioneer in this area, and one of the outstanding neuroradiologists in the world. Furthermore, he has brought together the foremost scientists and clinical neuroradiologists in the field to present the individual chapters. The book gives an overview of the art of interventional neuroradiology. Each of the 12 chapters are devoted to a disease which can be treated by interventional neuroradiological techniques. Pertinent information is provided on anatomical detail, technical back, pertinent information aspects; in each case a detailed description of the indications, techniques, and possible complications of interventional neuroradiology is provided. Due consideration is given to the endovascular and nonendovascular applications of the techniques. This book is the first comprehensive update of interventional neuroradiology and will acquaint the reader with well-established facts, recent advances, and future perspectives within this new discipline. It will be of special value to those working in neuroradiology but will also prove very helpful for neurosurgeons, neurologists, and ophthalmologists, as well as all physicians and researchers in the clinical neurosciences. We hope that the book will meet with the reception and success that it undoubtedly merits.

Covers the main subspecialties in radiology. This title covers the full spectrum of radiology subspecialties including: brain, gastrointestinal, cardiac, breast, urogenital, spinal, head and neck, musculoskeletal, pediatric, thoracic, vascular, and interventional radiology.

see Vol. 4 ISBN 17500-8
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 aneurysms, arteriovenous malformations, tumors, intracranial and extracranial arterial stenoses, and arterial fistulas. This publication provides neurosurgeons, radiologists, neurologists, and trial lawyers with a concise reference that explains the background, as well as indications, and techniques for performing the most common neuroendovascular procedures.

The new edition of this book updates an established text written for trainees and practicing endovascular therapists. The content is based on the philosophy of the Endovascular system of teaching. This is Oxford University and its medical degree course of teaching. The tutorial is a learning episode focused on a particular topic. The book is presented as a series of tutorials, which introduces and guides students through background literature, highlights relevant research data, and provides insights on treatments from an experienced practitioner. Each tutorial covers a different topic to provide a complete review of the subspecialty and its theoretical basis. It is intended to equip the reader with a foundation of knowledge on which to build their clinical practice and a reference base for further study. Its practical approach to endovascular therapy will help the reader to understand recent developments in this rapidly expanding field of medicine.

Interventional Neuroradiology, Volume 179, provides a basic outline of the field of interventional neuroradiology that is accessible to fellows, residents, clinicians, and researchers in various disciplines, from diagnostic and interventional radiology to vascular neurology, general and vascular neurosurgery, and vascular biology. This volume offers a timely update to experienced clinical practitioners in a logical, easy-to-follow format. Content includes neurovascular anatomy, vascular biology, neurovascular physiology, vascular imaging, as well as sections on the diagnosis and therapeutic treatment of neurovascular disease. Explores the general scope of current clinical interventional neuroradiology, both for endovascular and percutaneous image-guided diagnosis and interventions in a variety of pathologies. It presents basic biological principles (e.g., cerebral perfusion pressure, intracranial pressure, vasospasm, tissue oedema) with reference to those most essential to the management of neurovascular diseases. Decision Making in Neurovascular Disease has emerged as an established, semi-independent subspecialty of neurology and neurosurgery, and neurocritical care, as well as veteran clinicians in these specialties.

The first volume of this second edition of Surgical Neuroangiography contains the previous volumes 1 and 3 in one book. The editors and updated text provides a practical understanding of the challenges that face the modern management of vascular diseases. Additional 3-D angiographic photographs as well as new illustrations complete this classic book of vascular disease management in adults and children. The authors, Pierre Lasjaunias, Alex Berenstein, and Karel ter Brugge are highly committed to both research and teaching. This book aims to provide the trainee and practicing minimally invasive neurological therapist with a comprehensive understanding of the background science and theory that forms the foundation of their work. The contents are based on the tutorial teaching techniques used at the University of Oxford and are authored by the MSC Course Directors. The tutorial is a learning episode focused on a particular topic and intended to guide the student/reader through the background literature, to highlight the research on which standard practices are based and to provide the insights of an experienced practitioner. Each chapter of the book covers a different topic to build a complete review of the subspecialty, with in-depth discussion of all currently used techniques. The literature is reviewed and presented in context to illustrate its importance to the practice of this rapidly expanding field of medical treatment.
This book answers frequently asked questions about common pediatric neurosurgical conditions related to vascular malformations of the brain and spinal cord, in an attempt to fill in the gap and answer numerous questions that arise after a diagnosis is made. Pediatric patients with neurosurgical conditions are almost always referred from either primary care physicians, neurologists, intensivists or a specialist in family medicine. Recently, neurosurgeons treating adult population also refer a pediatric patient to their colleague specialized in this field. There are over 1500 academic and private hospitals in the US who have dedicated tertiary Neurosurgery services and cater thousands of small children every year, in addition to numerous centers that have level 1 and 2 trauma care. However, there are few tertiary level Pediatric centers which can provide quality care for neurosurgical conditions. This book is specially written and illustrated for residents, fellows and consultants/attendings in all pediatric related specialties, including but not limited to Neurosurgery, Neurology, Pediatrics, Radiology, Anesthesia.

Unique case-based reference presents highly-illustrated images and expert focused on vascular neuroradiology Imaging in Neurovascular Disease: A Case-Based Approach by Waleed Brinji and Timo Krings is unique in its approach, detailing diagnostic and interventional neuroradiology cases based on radiologic findings. The book explores the key role vascular imaging can play in treatment decision making, prognostication, and improving the understanding of the pathophysiology behind vascular disease. Spread over 11 chapters, this book consists of 99 richly illustrated chapters, and more than 140 videos, this unique case-based book is essential reading for radiology, neurology and neurosurgery residents. It brings you in-depth and advanced guidance on all of today’s imaging and procedural techniques. Whether you're a resident preparing for exams or a practitioner needing a quick-consult source of information, Vascular and Interventional Radiology is your guide to the field.

This book offers a practical guide to endovascular treatment of cerebrovascular disease and provides a concise reference for the related neurovascular anatomy and the various disorders that affect the vascular system. Fully revised and updated, the information is accessible and easy to read. It discusses fundamental principles underlying cerebral and spinal angiography; interventional techniques, devices, and practice guidelines; and commonly encountered cerebrovascular disorders for which interventional and endovascular methods are appropriate. New topics and features include: intracerebral and intraventricular hemorrhage; intracranial tumor embolization; vasculitis work-up and management; percutaneous carotid