Springer Top Titles in Medicine

New Book Information

THIRD QUARTER 2011
Case Based Echocardiography
Fundamentals and Clinical Practice
T. Abraham, Johns Hopkins University, Baltimore, MD, USA (Ed.)

Features
- Examines the explosion in new echocardiography technologies from a practical view-point
- Covers the day-to-day aspects of echocardiography practice
- Includes details of vascular imaging that reflect the current trend towards a more integrated cardiovascular approach

Case Based Echocardiography will provide a case-based introduction/primer to the practice of echocardiography with liberal use of images and actual patient histories. The reader will be able to gain extensive practical knowledge of the practice of echocardiography with the use of these case reports. These will concentrate on the skills necessary to increase specialist knowledge of echocardiography practice.

From the contents
Forthcoming
Due September 2011

2nd Edition
Radiation Exposure and Image Quality in X-Ray Diagnostic Radiology
Physical Principles and Clinical Applications
H. Aichinger, J. Dierker, S. Joite-Barfuß, M. Säbel, University of Erlangen, Germany

Features
► Thoroughly updated new edition that examines in detail the relationship between radiation dose and image quality, including when using digital imaging and computed tomography
► Written by experts who for many years have collected data relevant to the optimization of radiological diagnosis
► Complementary CD-ROM containing a user-friendly Excel file that can be used in calculations

This completely updated second edition of Radiation Exposure and Image Quality in X-ray Diagnostic Radiology provides the reader with detailed guidance on the optimization of radiological imaging. The basic physical principles of diagnostic radiology are first presented in detail, and their application to clinical problems is then carefully explored. The final section is a supplement containing tables of data and graphical depictions of X-ray spectra, interaction coefficients, characteristics of X-ray beams, and other aspects relevant to patient dose calculations. In addition, a complementary CD-ROM contains a user-friendly Excel file database covering these aspects that can be used in the reader’s own programs. This book will be an invaluable aid to medical physicists when performing calculations relating to patient dose and image quality, and will also prove useful for diagnostic radiologists and engineers.

From the contents
Induction Chemotherapy
Integrated Treatment Programs for Locally Advanced Cancers

K. R. Aigner, Medias Klinikum, Burghausen, Germany; F. O. Stephens, University of Sydney, NSW, Australia (Eds.)

Features
► Describes the applications of induction chemotherapy in different cancer types
► Presents integrated treatment practices in different renowned institutions
► Devotes detailed attention to pioneering or cutting-edge practices and research
► Discusses patient selection
► Explains the importance of comprehensive cancer centers

Induction chemotherapy, as part of an integrated plan of management for locally advanced cancers, is being practiced throughout the world, but frequently teams are unaware of the work being undertaken in other institutions. This book aims to present the full range of management techniques used in induction chemotherapy within one accessible volume. It provides up-to-date information on pioneering and cutting edge practices and documents the advantages of integrated treatment schedules. Patient selection is discussed, and each of the cancer types for which induction therapy has proved important is considered in detail. All who are responsible for the treatment of patients with locally advanced cancers will find this book to be an invaluable source of information. It will be particularly interesting for specialist oncologists aiming to set up fully comprehensive cancer centers and for health administrators wishing to learn about the benefits of establishing such centers in strategic locations.

From the contents
Narcolepsy
Pathophysiology, Diagnosis, and Treatment
C. R. Baumann, C. L. Bassetti, Department of Neurology, University Hospital of Zurich, Zurich, Switzerland; T. E. Scammell, Department of Neurology, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, USA (Eds.)

Features
▶ Offers an engaging and exhaustive treatment of narcolepsy
▶ Developed by internationally renowned team of experts
▶ In-depth, state-of-the-art overview of myriad issues related to pathophysiology
▶ Comprehensive, providing sections on etiology, neurochemistry, the role of hypocretin

The field of narcolepsy has developed enormously within the last 10 years. Indeed the understanding of the basics of sleep-wake regulation and the discovery of new neurotransmitter systems (the hypocretins) has boosted research and key findings in the field, providing important insights into how sleep is regulated. Consequently narcolepsy now receives a great deal of attention from both clinicians and scientists throughout the world. Narcolepsy: Pathophysiology, Diagnosis, and Treatment not only offers an engaging and comprehensive treatment of a fascinating disorder but also includes a DVD that offers a unique and large collection of movies displaying the symptoms of narcolepsy in people and animals. Written by some of the best experts in the field, the book focuses on the pathophysiology of the problem and also provides critical, up-to-date insights on the key clinical issues: how to diagnose the disorder, how to treat it, and how to best manage psychosocial problems. The first and only guide to span the latest advances in narcolepsy, this reference provides sections in etiology, neurochemistry, the role of the hypocretins in sleep-wake regulation, animal models in narcolepsy, the key role of the hypothalamus, REM-sleep dysregulation, diagnosis and classification, and treatment. Compiled by an international group of more than 30 authors, Narcolepsy: Pathophysiology, Diagnosis, and Treatment is an indispensable resource for all clinicians and scientists with an interest in narcolepsy.

From the contents
Etiology and genetics of human narcolepsy.- Narcolepsy: autoimmunity or secondary to infection?.- Is narcolepsy a neurodegenerative disorder?.- The roles of hypocretin/orexin in narcolepsy, Parkinson’s disease, and normal behaviour.- Histamine in narcolepsy and excessive daytime sleepiness.- Dopaminergic substrates underlying hypersomnia, sleepiness, and REM sleep expression.- The serotonergic system in sleep and narcolepsy.- Sleep homeostasis, adenosine, caffeine, and narcolepsy.- Prostaglandin D2: an endogenous somnogen.- The neurobiology of sleep-wake systems: an overview.- The hypocretins/orexins: master regulators of arousal and hyperarousal.- Optogenetic probing of hypocretin/orexin regulation of wakefulness.- Hypocretin/orexin receptor functions in mesopontine systems regulating sleep, arousal and cataplexy.- Afferent control of the hypocretin/orexin neurons.- The neural basis of sleepiness in narcoleptic mice.- Mathematical models of narcolepsy.- The hypothalamus and its functions.- The prehistory of orexin/hypocretin and melanin-concentrating hormone neurons of the lateral hypothalamus.
2nd Edition

The ASCRS Textbook of Colon and Rectal Surgery

D. E. Beck, Department of Colon and Rectal Surgery, Louisiana State University Health Sciences Center, New Orleans, Louisiana, USA; P. L. Roberts, Tufts University School of Medicine, Burlington, MA, USA; T. J. Saclarides, Rush Medical Center, Chicago, IL, USA; A. J. Senagore, Spectrum Health, Grand Rapids, MI, USA; M. J. Stamos, UCI Medical Center, Orange, CA, USA; S. D. Wexner, Cleveland Clinic Florida, Weston, FL, USA (Eds.)

Features

- EBM approach based on the Core Curriculum established by the Association of Program Directors in Colon and Rectal Surgery
- Written by expert surgeons with unique perspectives
- A source of guidance for colorectal surgeons

The ASCRS Textbook of Colorectal Surgery is the first official textbook of the American Society of Colon and Rectal Surgeons that adheres to the principals of evidence-based practice and utilizes ASCRS practice parameters. Written by top experts in the specialty, each chapter correlates with the core curriculum developed by the Program Director’s Association in Colorectal Surgery. Chapters include Anatomy, Physiology, Genetics, Diagnostic Evaluation, and Perioperative Management. In addition, a ground-breaking online component is updated periodically with new information for the busy surgeon. Offering 56 chapters and more than 380 illustrations, including 64 color, this is destined to become a classic. It is a must-have reference for residents and fellows in training, as well as practicing surgeons.

From the contents

- Anatomy and Embryology.
- Colonic Physiology.
- Anorectal Physiology.
- Physiologic Testing.
- Endoscopy.
- Radiology.
- Endoluminal Ultrasound.
- Preoperative Management.
- Postoperative Management.
- Postoperative Complications.
- Hemorrhoids.
- Anal Fissure.
- Anorectal Abscess and Fistula.
- Benign Anorectal and Rectovaginal Fistulas.
- Pilonidal Disease and Hidradenitis Suppurativa.
- Dermatology and Pruritus Ani.
- Sexually Transmitted Diseases.
- Fecal Incontinence.
- Pelvic Floor Disorders.
- Anal Cancer.
- Presacral Tumors.
- Diverticular Disease.
- Colonic Volvulus.
- Lower Gastrointestinal Hemorrhage.
- Endometriosis.
- Trauma of the Colon and Rectum.
- IBD: Diagnosis and Evaluation.
- IBD: Medical Management.
- UC: Surgical Management.
- Crohn's Disease: Surgical Management.
- Intestinal Stomas.
- Constipation and Functional Bowel Disorders.
- Rectal Prolapse.
- Other Benign Colorectal Disorders.
- Advanced Laparoscopy and NOTES.
- Polyps.
- Hereditary Colorectal Cancer.
- Colorectal Cancer – Epidemiology, Etiology, and Molecular Basis.
- Colorectal Cancer: Screening.
- Colon Cancer Evaluation and Staging.
- Surgical Management of Colon Cancer.
- The Preoperative Staging of Rectal Cancer.
- Local Excision of Rectal Cancer.
- Surgical Treatment of Rectal Cancer.
- Rectal Cancer: Locally Advanced and Recurrent.
- Colorectal Cancer: Adjuvant Therapy.
- Colorectal Cancer: Metastatic (Palliation).
- Colorectal Cancer: Surveillance.
- Miscellaneous Neoplasms.
- Pediatric Colorectal Disorders.
- Health Care Economics.
- Ethical and Legal Considerations.
- Legal Considerations.
- Surgical Education.
- Continuing Medical Education.
- Quality.
In recent years, great advances in translational research have led to new paradigms in the treatment of cancers of the head and neck. Written by leading international physicians and investigators, this innovative multi-disciplinary book presents the most up-to-date research and clinical approaches. Coverage is given to progress in a variety of clinical settings, including programs of organ and function preservation, curative treatments, unresectable disease, adjuvant treatments in high-risk patients, and recurrent/metastatic disease. Complementary to the techniques of surgery, radiotherapy, and systemic treatments, the authors present data on epidemiology, molecular pathology, normal tissue complications, rehabilitation, palliative care, and treatment in the elderly. State-of-the-art functional imaging is elucidated; and the latest developments in high precision techniques in irradiation, sequencing of chemo- and radiotherapy, as well as the integration of biomolecular therapies into cytotoxic treatments are explored.

From the contents
Scrotal Pathology

M. Bertolotto, University of Triest, Triest, Italy; C. Trombetta, University of Trieste, Department of Urology, Ospedale di Cattinara, Trieste, Italy (Eds.)

Features

► A comprehensive practical guide to the management of patients with scrotal disorders
► Integrates clinical and imaging perspectives
► Fully describes symptoms, clinical tests, histopathology, imaging features and therapeutic strategies
► Includes many high-quality images obtained with high-end equipment
► Considers adults and children separately whenever necessary

Scrotal Pathology is a comprehensive practical guide to the management of patients who present with scrotal disorders. Introductory chapters consider imaging instrumentation, clinical evaluation, and clinical and imaging anatomy. The full range of disorders is then discussed in individual chapters organized according to clinical presentation. All clinical and imaging aspects are covered in depth, with full description of symptoms and explanation of the value of different clinical tests and imaging modalities. In addition, underlying histopathological features are presented and correlated with imaging features in order to clarify their pathological basis. For each disorder, therapeutic strategies are discussed and appraised. Adults and children are considered separately whenever necessary, bearing in mind that they often present essentially different scrotal pathology. The many images are all of high quality and were obtained using high-end equipment.

From the contents

Cerebral Angiography
Normal Anatomy and Vascular Pathology
G. B. Bradac, University of Turin, Italy

Features
- Thoroughly-illustrated guide to the diagnostic use of cerebral angiography
- Depicts normal appearance of the cerebral vessels and a wide range of pathologies in both typical and atypical presentations
- Highlights the evolving therapeutic possibilities and the role of cerebral angiography in treatment selection

Cerebral Angiography is a comprehensive and well-illustrated guide to the diagnostic use of cerebral angiography. The first part of the book depicts in detail the normal appearance of the cerebral vessels on angiographic studies. Sound knowledge of this normal vascular anatomy and clinical function is vital for correct interpretation of the clinical significance of the pathological processes addressed in the second part of the book. The latter include vascular abnormalities, including angiomas, fistulas, and aneurysms; atherosclerotic and non-atherosclerotic stenosis and occlusion of the cerebral vessels; and venous thrombosis. In each case, both typical and atypical appearances are presented. While the emphasis throughout is on the diagnostic value of cerebral angiography, a number of examples of endovascular treatment are also included to highlight the evolving possibilities of therapy and the role of cerebral angiography in treatment selection.

From the contents
Case Studies of Near Misses in Clinical Anesthesia

J. G. Brock-Utne, MD, PhD, FFA(SA), Stanford University Medical Center, Stanford, CA, USA

Features

► 80 true-story clinical “near misses” never before published Ideal for problem-centered learning
► Recommendations, references, and discussions accompany the cases
► Rich basis for teaching discussions both in or out of the operating room
► Settings include sophisticated as well as rudimentary anesthetic environments
► Complements the author’s case book, Clinical Anesthesia: Near Misses and Lessons Learned

All anesthesiologists eventually face the fear of a “near miss,” when a patient’s life has been put at risk. Learning from the experience is crucial to professionalism and the ongoing development of expertise. Drawing on forty-plus years of practice in major metropolitan hospitals in the United States, Norway, and South Africa, John Brock-Utne, MD presents 80 carefully selected cases that provide the basis for lessons and tips to prevent potential disaster. The cases emphasize problem-centered learning and span a broad range of topics—from an outbreak of operating room infection (could it be the anesthesia equipment?), complications of fiberoptic intubations, and problems with epidural drug pumps, to performing an urgent tracheostomy for the first time, working with an aggressive surgeon, and what to do when a patient falls off the operating table during surgery. 80 true-story clinical “near misses” never before published, ideal for problem-centered learning, recommendations, references, and discussions accompany most cases, rich basis for teaching discussions both in or out of the operating room, settings include sophisticated as well as rudimentary anesthetic environments, complements the author’s other case book, Clinical Anesthesia: Near Misses and Lessons Learned (Springer, 2008).

Ryan’s Ballistic Trauma 3rd Edition provides a concise guide to the clinical and operational issues surrounding the management of the ballistic casualty. This book crystallizes the knowledge and experience accrued by those dealing with ballistic trauma on a regular basis and extends this to those who have to manage these patients on an occasional basis only. Ryan’s Ballistic Trauma 3rd Edition is a valuable reference tool for all medical and paramedical personnel involved in the care of patients with ballistic injury. It is especially relevant for consultants and senior trainees in surgery, anesthesia and emergency medicine who are likely to be involved in the management of these unique injuries. This book is essential reading for pre-hospital care providers and nurses working in the emergency room, as well as military surgeons and medical and nursing staff on deployment in regions of conflict.

From the contents
99mTc-Sestamibi
Clinical Applications
J. Bucerius, Maastricht University Medical Center; H. Ahmadzadehfar, H. Biersack, Klinik und Poliklinik für Nuklearmedizin, Bonn, Germany (Eds.)

Features
► The first book to focus exclusively on clinical and practical aspects of the SPECT tracer 99mTc-sestamibi
► Thoroughly documents the uses of 99mTc-sestamibi in cardiology, oncology and other disciplines
► Emphasizes the clinical and practical aspects of 99mTc-sestamibi

99mTc-sestamibi is a single-photon emission computed tomography (SPECT) radiotracer that is widely used for the imaging of myocardial perfusion, as well as a variety of malignant and benign diseases. 99mTc-Sestamibi – Clinical Applications provides a detailed and informative overview of almost all the oncologic and non-oncologic applications of 99mTc-sestamibi SPECT, including several relatively rare indications. Different disease-related protocols for 99mTc-sestamibi SPECT are presented, and for each disease a comprehensive summary of the relevant pathology and epidemiology is provided. Throughout, there is a strong emphasis on the practical aspects of use of this popular tracer, including instructions for the preparation of several commercially available tracer kits. Clinical practitioners will find this book to be an invaluable guide to the application and benefits of 99mTc-sestamibi SPECT in both the inpatient and the outpatient setting.

From the contents
Botulinum Toxin in Urology

M. B. Chancellor, Beaumont Hospital, Royal Oak, MI, USA; C. P. Smith, Baylor College of Medicine, Houston, TX, USA

Features
► Examines the use of botulinum toxins (BoNT) in the genitourinary tract
► Discusses in detail the applications of BoNT in the bladder and the prostate and pelvic floor, with reviews of the latest clinical series and techniques of BoNT injection
► Written and edited by leading authorities
► Designed to be of practical assistance to all urologists and urogynecologists wishing to use BoNT in their practice

The minimally invasive use of botulinum toxin (BoNT) in the lower urinary tract has revolutionized the treatment of debilitating bladder, urethra, and prostate conditions refractory to conventional therapy. This is the first book focusing on the practical application of BoNT to the genitourinary tract. An introductory section discusses the biology, pharmacology, and safety of BoNT in the lower urinary tract. Applications of BoNT in the bladder and the prostate and pelvic floor are then covered in detail, with reviews of the latest clinical series and techniques of BoNT injection in both adults and children. The book closes by considering non-genitourinary uses of BoNT and addressing issues of health economics as well as providing insights from experts from across the world. This is a practical, hands-on book written by two leading pioneers in the field. It will be of interest to all urologists and urogynecologists who are considering the use of BoNT in their practice.

From the contents
3rd Edition

**Essentials of Anatomic Pathology**

L. Cheng, Indiana University, Indianapolis, IN, USA; D. G. Bostwick, Bostwick Laboratories, Glen Allen, VA, USA (Eds.)

**Features**

- Extensively revised and expanded to cover all aspects of anatomic pathology

In the 8 years since the publication of the first edition of Essentials of Anatomic Pathology, great strides have been made in our understanding of diseases and neoplastic processes. Many clinically important new histopathologic entities have been described or more fully defined in virtually every organ. Numerous clinically important diagnostic and prognostic markers have entered routine practice. Genetic testing for the early detection of cancers and the molecular classification of diseases has become increasingly important. This is an age of enlightenment in surgical pathology, and the authors of this new volume have captured this sense of excitement herein.

This much praised and widely used reference manual on has been extensively revised and expanded to cover the entire field of anatomic pathology. The Third Edition features the incorporation of full-color images in the text with updates of new diagnostic and prognostic information. New classifications and numerous new entities and histologic variants are fully explored. Useful immunostaining biomarkers and emerging molecular targets and relevant molecular findings that have emerged from recent genomic studies are incorporated in each chapter.

Written by internationally recognized authorities, the comprehensive, evidence-based practice information is presented in an outline format that is clear and easy to follow. Up-to-date and richly detailed, Essentials of Anatomic Pathology, Third Edition offers both the pathologist-in-training and the practicing pathologist a concise summary of all the critical information needed to recognize, understand and interpret anatomic pathology.

**From the contents**

- Cytopathology.
- Immunohistochemistry for the Surgical Pathologist.
- Tumors of Unknown Primary.
- Diagnostic Electron Microscopy.
- Transplantation Pathology.
- Microbiology for the Surgical Pathologist.
- Forensic Pathology.
- Autopsy.
- Biomedical Informatics for Anatomic Pathology.
- Quality Assurance and Regulations for Anatomic Pathology.
- Molecular Diagnostic Pathology.
- Molecular Pathology of Solid Tumors.
- Human Genetic Disorders.
- Neuropathology.
- Lymph Node.
- Spleen.
- Bone Marrow.
- Neoplasms of the Skin and Immunodermatology.
- Non-Neoplastic Skin Diseases.
- Endocrine Pathology.
- Bone and Joints.
- Soft Tissue Tumors.
- Tumors of the Salivary Glands.
- Head and Neck.
- Eye and Ocular Adnexae.
- Mediastinum and Thymus.
- Cardiovascular Pathology.
- Lung and Pleura.
- Breast.
- Vulva and Vagina.
- Uterus and Fallopian Tube.
- Ovary and Peritoneum.
- Placenta and Gestational Trophoblastic Disease.
- Non-Neoplastic Renal Diseases.
- Tumors of the Kidney.
- Urinary Bladder.
- Renal Pelvis, Ureter, and Urethra.
- Prostate.
- Testis and Testicular Adnexa.
- Penis.
- Esophagus and Stomach.
- Small Intestine, Appendix, Colorectum, and Anus.
- Pancreas.
- Neoplastic Hepatobiliary Disease.
- Neoplasms of the Liver and Biliary System.
Perioperative Medicine

S. L. Cohn, State University of New York, NY, USA (Ed.)

Features

► Covers essential, must-know facts
► Content presented in an easy-to-follow streamlined, bulleted format ensures quick comprehension of key concepts
► Expert, up-to-date coverage of the most critical, need-to-know concepts in perioperative care, from preoperative risk assessment to postoperative follow-up and much more
► Complete coverage of co-existing diseases, assessment and implications for surgical care
► Logically organized, easy-to-follow chapters help focus your study and provide rapid access to specific subjects

Perioperative Medicine uses a concise, highly practical, bulleted format designed to ensure rapid comprehension of key concepts and reinforce the reader’s understanding of complex topics in perioperative medicine. It contains authoritative, up-to-date coverage of the most essential concepts in perioperative care from preoperative risk assessment to postoperative follow-up. The Editor and his contributors use their expert insight and experience to provide an in-depth review of comorbid conditions, patient and surgery-specific risk assessment, and common postoperative complications. This new book reviews recent developments in the field, including published guidelines, and emphasizes an evidence-based, cost-effective approach designed to ensure quality, patient safety, and optimal outcomes. It is intended for use by hospitalists, general internists and subspecialists as well as anesthesiologists, surgeons, and residents in training who are caring for patients before and after surgery.

From the contents

Section 1 – Preoperative Evaluation. - Section 2 – Surgery-Specific Risks. - Section 3 - Preoperative Evaluation and Management of Co-existing Medical Diseases. - Section 4 – Postoperative Complications.
Imaging of the Hand and Wrist
Techniques and Applications

A. M. Davies, Royal Orthopaedic Hospital, Birmingham; A. J. Grainger, Leeds General Infirmary, UK; S. J. James, Royal Orthopaedic Hospital, Birmingham, UK (Eds.)

Features
► Comprehensive, up-to-date textbook
► Discusses in detail all the techniques used to image the hand and wrist
► Provides an authoritative review of the various pathologies that may be encountered in the hand and wrist, including congenital and developmental abnormalities, trauma and the full range of localized and systemic disorders
► Written by acknowledged experts
► Includes a wealth of illustrative material

In the past, radiographs of the hand have been described as the “skeleton’s calling card”, showing manifestations of many different diseases. As hand and wrist imaging has become increasingly sophisticated, this observation has become more true than ever. This is a comprehensive, up-to-date textbook on imaging of the hand and wrist. In the first part of the book, the various imaging techniques are discussed in detail. Individual chapters are devoted to radiography, ultrasound, CT, MRI and nuclear medicine. The second part of the book gives an authoritative review of the various pathologies that may be encountered in the hand and wrist, encompassing congenital and developmental abnormalities, trauma, and the full range of localized and systemic disorders. Each chapter is written by an acknowledged expert in the field, and a wealth of illustrative material is included. This book will be of great value to musculoskeletal and general radiologists, orthopaedic surgeons and rheumatologists.

From the contents

Forensic Histopathology
Fundamentals and Perspectives
R. B. Dettmeyer, Justus-Liebig-Universität Giessen, Germany

Features
► Provides detailed information on how microscopy can help to clarify the cause of sudden and unexpected death
► Demonstrates both typical and unusual findings with the aid of numerous high-quality color illustrations
► Highlights other key literature relating to the topic under consideration
► Invaluable for both forensic pathologists and general pathologists

This book, which combines the features of an atlas and a textbook, presents findings in forensic histology, immunohistochemistry, and cytology based on microscopic investigations using different stainings and different antibodies. The principal aim is to provide practitioners with detailed information and guidance on how microscopy can help to clarify the cause of sudden and unexpected death. Many of the topics will be of interest not only to forensic pathologists but also to general pathologists, whether practitioners or researchers. Examples include the pathology of drug abuse, wound age determination, adverse drug reactions, histopathology of the sudden infant death syndrome, and age determination of myocardial infarction. Both typical and unusual findings are demonstrated with the aid of numerous high-quality color illustrations, and other key literature in forensic histology and immunohistochemistry is highlighted for each topic.

From the contents
Clinical Neuroanatomy
Brain Circuitry and Its Disorders
H. J. Donkelaar, Radboud University Nijmegen, The Netherlands

Features
► With over 600 excellent illustrations, brain images and graphics
► Includes numerous clinical cases
► Gives a modern approach to understanding brain functions and diseases based on neural connectivity

Connections define the functions of neurons: information flows along connections, as well as growth factors and viruses, and even neuronal death may progress through connections. Knowledge of how the various parts of the brain are interconnected to form functional systems is a prerequisite for the proper understanding of data from all fields in the neurosciences. Clinical Neuroanatomy: Brain Circuitry and Its Disorders bridges the gap between neuroanatomy and clinical neurology. It emphasizes human and primate data in the context of disorders of brain circuitry which are so common in neurological practice. In addition, numerous clinical cases demonstrate how normal brain circuitry may be interrupted and to what effect. Following an introduction into the organization and vascularisation of the human brain and the techniques to study brain circuitry, the main neurofunctional systems are discussed, including the somatosensory, auditory, visual, motor, autonomic and limbic systems, the cerebral cortex and complex cerebral functions.

From the contents
Overview of the human brain and spinal cord.- Vascularization of the brain and spinal cord.- Notes on techniques.- The somatosensory system.- The reticular formation.- The cranial nerves.- The auditory system.- The visual system.- Motor systems.- The cerebellum.- The basal ganglia.- The autonomic nervous system.- The hypothalamus and hypothalamohypophysial systems.- The limbic system.- The cerebral cortex and complex cerebral functions.
Brain Mapping
From Neural Basis of Cognition to Surgical Applications
H. Duffau, Hopital Gui de Chauliac, CHU Montpellier, France (Ed.)

Features
- Provides new insights into brain organization
- Advances and limitations of the different methods of functional cerebral mapping
- Written by well-known experts in the fields

The goal of this book is to make a link between fundamental research in the field of cognitive neurosciences, which now benefits from a better knowledge of the neural foundations of cerebral processing, and its clinical application, especially in neurosurgery – itself able to provide new insights into brain organization.

The anatomical bases are presented, advances and limitations of the different methods of functional cerebral mapping are discussed, updated models of sensorimotor, visuospatial, language, memory, emotional, and executive functions are explained in detail. In the light of these data, new strategies of surgical management of cerebral lesions are proposed, with an optimization of the benefit–risk ratio of surgery. Finally, perspectives about brain connectivity and plasticity are discussed on the basis of translational studies involving serial functional neuroimaging, intraoperative cortico-subcortical electrical mapping, and biomathematical modeling of interactions between parallel distributed neural networks.

From the contents
Brain anatomy. - Methods of brain mapping: advances and limitations. - New insights into neuro-cognition provided by brain mapping. - Surgical applications. - Perspectives.
Multi Modality State-of-the-Art Medical Image Segmentation and Registration Methodologies

Volume II

A. S. El-Baz, Bioengineering Department, University of Louisville, USA; R. Acharya U, Department of Computer and Electrical Engineering, Ngee Ann Polytechnic, Singapore; A. F. Laine, Department of Biomedical Engineering, Columbia University, USA; J. S. Suri, Biomedical Technologies Inc., Denver, CO, & Aff.-Idaho State University, ID, USA (Eds.)

Features

- Combines registration and segmentation techniques
- Covers segmentation application to prosthesis design and the brain
- Discusses the role of segmentation in autistic and normal brains
- Covers ocular thermographic sequence analysis and 3D ultrasound image segmentation

With the advances in image guided surgery for cancer treatment, the role of image segmentation and registration has become very critical. The central engine of any image guided surgery product is its ability to quantify the organ or segment the organ whether it is a magnetic resonance imaging (MRI) and computed tomography (CT), X-ray, PET, SPECT, Ultrasound, and Molecular imaging modality. Sophisticated segmentation algorithms can help the physicians delineate better the anatomical structures present in the input images, enhance the accuracy of medical diagnosis and facilitate the best treatment planning system designs. The focus of this book is towards the state of the art techniques in the area of image segmentation and registration.

From the contents

A Concise Guide to Nuclear Medicine

A. H. Elgazzar, Kuwait University, Department of Nuclear Medicine, Safat, Kuwait

Features
► Ideal guide for students, with clear presentation of material to assist rapid learning
► Explains the application of nuclear medicine techniques in different body systems and in oncology
► Includes a special chapter on radionuclide therapy
► Contains 125 high-quality illustrations and images

Nuclear medicine is an important component of modern medicine. This easy-to-use book is designed to acquaint readers with the basic principles of nuclear medicine, the instrumentation used, the gamut of procedures available, and the basis for selecting specific diagnostic or therapeutic procedures and interpreting results. After an introductory chapter on the history, technical basis, and scope of nuclear medicine, a series of chapters are devoted to the application of nuclear medicine techniques in the different body systems. In addition, the use of nuclear medicine methods within oncology is carefully examined, covering diagnosis, staging, assessment of treatment response, radiotherapy planning, and the sentinel node technique. The book concludes with a chapter devoted to nuclear medicine therapy. This practical and up-to-date guide to nuclear medicine is ideal for beginners and will also help professionals who need to retrieve useful information rapidly.

From the contents
2nd Edition

Textbook of Clinical Pediatrics

A. Y. Elzouki, H. A. Harfi, H. Nazer, Umm Al-Qura University, Makkah, Saudi Arabia; W. Oh, Brown Medical School, Providence, RI, USA; F. B. Stapleton, University of Washington, School of Medicine, Seattle, WA, USA; R. J. Whitley, University of Alabama, School of Medicine, USA

Features

- This textbook has a problem-based approach to pediatric diseases with a global appeal
- Evidence-based and supports practicing pediatricians, residents in training, medical students and family practitioners in their management of sick children

The first edition of this reference was hailed by the New England Journal of Medicine and the Mayo Clinic Proceedings as “an excellent resource”, and this new edition builds on that excellence. Global in perspective, it is written by eminent pediatricians and scientists from four continents and offers a problem-based approach to pediatric diseases. It contains over three hundred chapters that encompass virtually all pediatric subspecialties, thoroughly covering every pediatric disease and organ system. Each chapter is clinically-oriented, and difficult subjects are treated with representative case studies that detail entire case histories. Well-structured, easy to read, and complete with over 750 lavish illustrations, this reference is indispensable for pediatricians and all health care professionals who work with pediatric patients.

From the contents

Advanced Surgical Facial Rejuvenation
Art and Clinical Practice

A. Erian, Cambridge, UK; M. A. Shiffman, Tustin, CA, USA (Eds.)

Features
► Covers all aspects of aesthetic facial surgery, from anatomy to the variety of current procedures, including ancillary techniques such as chemical peel, laser, and facial fillers
► Includes discussion of preoperative care, anesthesia, problems related to HIV infection, complications, and psychological aspects
► Richly illustrated
► Written by internationally acclaimed experts

This richly illustrated book covers all aspects of aesthetic facial surgery, from anatomy to the variety of procedures employed in facial surgery, including ancillary techniques such as chemical peel, laser, and facial fillers. Both newer techniques and variations on older approaches are carefully presented and discussed. In addition, preoperative care is analyzed, and detailed attention is devoted to problems related to HIV infection, anesthesia, complications, and psychological aspects. The contributors are all internationally acclaimed experts in the field. The book will be an invaluable source of information for residents and fellows, practicing aesthetic surgeons, and surgeons in a variety of related fields.

From the contents
Color Atlas of Fetal and Neonatal Histology

L. M. Ernst, Northwestern University, Chicago, IL, USA; E. D. Ruchelli, D. S. Huff, The Children’s Hospital of Philadelphia, PA, USA (Eds.)

Features

► Comprehensive atlas of the developmental histology of the major organs
► Each section includes text on basic embryologic processes that influence the development of each organ
► Includes many color photomicrographs at key developmental stages

Color Atlas of Fetal and Neonatal Histology serves as a comprehensive atlas of the developmental histology of the major organs from 15 weeks gestation to the neonatal period. Each section includes text on basic embryologic processes that influence the development of each organ and highlight major histologic features that correspond with certain developmental periods. In addition, there are many color photomicrographs at key developmental stages to assist the reader in identifying appropriate histologic changes at each developmental stage. This book will be of great value to students of embryology, pathology residents and fellows, and attending pathologists who perform fetal autopsies.

From the contents

**Functional Neuroradiology**
*Principles and Clinical Applications*

S. H. Faro, F. B. Mohamed, Temple University, Philadelphia, PA, USA; M. Law, University of Southern California, Los Angeles, CA, USA; J. T. Ulmer, Milwaukee, WI, USA (Eds.)

**Features**
- This cutting-edge textbook translates benchmark research on functional neuroimaging modalities into both clinical applications and the basic physics behind them for the non-scientist physician and cognitive neuroscientist alike.
- Contributors include internationally recognized radiologists, neurologists, neurosurgeons, psychiatrists, and psychologists.

Functional Neuroradiology: Principles and Clinical Applications, is a follow-up to Faro and Mohamed’s groundbreaking work, Functional (BOLD)MRI: Basic Principles and Clinical Applications. This new 49 chapter textbook is comprehensive and offers a complete introduction to the state-of-the-art functional imaging in Neuroradiology, including the physical principles and clinical applications of Diffusion, Perfusion, Permeability, MR spectroscopy, Positron Emission Tomography, BOLD fMRI and Diffusion Tensor Imaging. With chapters written by internationally distinguished neuroradiologists, neurologists, psychiatrists, cognitive neuroscientists, and physicists, Functional Neuroradiology is divided into 9 major sections, including: Physical principles of all key functional techniques, Lesion characterization using Diffusion, Perfusion, Permeability, MR spectroscopy, and Positron Emission Tomography, an overview of BOLD fMRI physical principles and key concepts, including scanning methodologies, experimental research design, data analysis, and functional connectivity, Eloquent Cortex and White matter localization using BOLD fMRI and Diffusion Tensor Imaging, Clinical applications of BOLD fMRI in Neurosurgery, Neurology, Psychiatry, Neuropsychology, and Neuropharmacology, Multi-modality functional Neuroradiology, Beyond Proton Imaging, Functional spine and CSF imaging, a full-color Neuroanatomical Brain atlas of eloquent cortex and key white matter tracts and BOLD fMRI paradigms. By offering readers a complete overview of functional imaging modalities and techniques currently used in patient diagnosis and management, as well as emerging technology, Functional Neuroradiology is a vital information source for physicians and cognitive neuroscientists involved in daily practice and research.

**From the contents**

Lipid Mediators and Their Metabolism in the Brain
A. A. Farooqui, The Ohio State University, Columbus, OH, USA

Features
► Presents readers with cutting edge and comprehensive information on lipid mediators in a manner that is useful not only to students and teachers, but also to researchers and physicians.
► Provides a comprehensive description of glycerophospholipid, sphingolipid, and cholesterol-derived mediators, their interactions with each others in normal brain and in brain tissue from neurological disorders.
► The presentation of this monograph is based on uniformity and logical progression of subject from one topic to another with an extensive bibliography.

Lipid Mediators and Their Metabolism in the Brain presents readers with cutting edge and comprehensive information not only on the synthesis and degradation of glycerophospholipid-, sphingolipid-, and cholesterol-derived lipid mediators, but also their involvement in neurological disorders. It is hoped that this monograph will be useful not only to postgraduate student and their teachers, but also to research scientists and physicians, who are curious about the generation and roles of lipid mediators in the brain.

From the contents
Neurofibromatoses in Clinical Practice

R. E. Ferner, Guy's and St. Thomas' Hospital, London, UK.; S. M. Huson, D. G. Evans, Saint Mary's Hospital, Manchester, UK.

Features

► Practically focused and accessible including clinical photographs illustrating diagnostic features of NF1, NF2 and differential diagnoses and tables showing diagnostic features and protocols for management.
► Includes engaging case histories illustrating diagnostic features, screening protocols and investigations.
► A clinical quiz to reinforce awareness of pitfalls in diagnosis and management and encourages an interactive response from the reader.

Neurofibromatoses in Clinical Practice provides a succinct, accessible guide to the neurofibromatoses including diagnosis, management protocols and indications for referral to specialist centers. Neurocutaneous diseases are complex to diagnose and treat and many patients require specialist multidisciplinary management and surveillance. Due to multiple disease manifestations, patients can present to different clinicians without specialist expertise - general practitioners, pediatricians, neurologists, geneticists, surgeons and ophthalmologists. The clinically focused format will enable rapid consultation during clinics, facilitate disease pattern recognition, and indicate care pathways. The clinical quiz highlights common pitfalls in diagnosis and management and a glossary and reference section provide details for access to specialist NF clinics throughout the UK and internationally. Written by experts in the field Neurofibromatoses in Clinical Practice is a succinct and practical guide for consultants in training and practice, general practitioners and specialist nurses.

From the contents

Introduction.- Neurofibromatosis 1.- Neurofibromatosis 2.- Differential Diagnosis of NF1 and NF2.- Psychological impact of disease and quality of life.- Clinical quiz emphasising diagnostic and management pitfalls of neurocutaneous disease.- Glossary of terms.- Useful websites for NF information, lay groups and specialist NF centres
2nd Edition

The Daschner Guide to In-Hospital Antibiotic Therapy
European Standards

U. Frank, Freiburg University Medical Center, Freiburg, Germany; E. Tacconelli, Università Cattolica dei Sacro Cuore, Rome, Italy

Features

- Handy - concise - clear
- The "always on-hand" pocket guide to the treatment of infectious diseases
- The most important antibiotics and antimycotics: Spectrum - dosage - side-effects
- Numerous tables sorted by substances, pathogens, indications
- Administration of antibiotics during pregnancy, renal and hepatic insufficiency, dialysis
- Including statements on the cost of therapy

Handy – concise – clear. The “always on-hand” pocket guide to the treatment of infectious diseases. - The most important antibiotics and antimycotics: Spectrum – dosage – side-effects – Numerous tables sorted by substances, pathogens, indications - Administration of antibiotics during pregnancy, renal and hepatic insufficiency, dialysis - Including statements on the cost of therapy Numerous tips and troubleshooting guides on topics such as: - Potential mistakes - Therapy failures - Perioperative antibiotic prophylaxis Adjusted to European standards: Up-to-date substances, authorizations, resistances and trade names.

The first guide to antibiotic therapy for Europe! All in all, an approach that looks towards the future in which antimicrobial resistance will certainly represent an ever-growing obstacle for the medical class, and for which books like this will undoubtedly represent a precious resource. Giuseppe Cornaglia, MD, PhD President, European Society of Clinical Microbiology and Infectious Diseases (ESCMID) This book will most certainly be a valuable asset for all those treating patients with infections. While primarily aimed at the hospital setting, most of the very useful information can certainly be used in other healthcare settings, too. Andreas Voss Professor of Clinical Microbiology and Infection Control Radboud University Nijmegen Medical Centre and Canisius-Wilhelmina Hospital Nijmegen, The Netherlands

From the contents

Fundamentals of Surgical Simulation
Principles and Practice

A. G. Gallagher, Royal College of Surgeons, Dublin, Ireland; G. C. O’Sullivan, Mercy University Hospital, University College Cork, Cork, Ireland

Features
► Explains in detail from a behavioural science/human factors perspective why modern image guided medicine such as surgery is difficult to learn and what is important when structuring a curriculum.
► A valuable resource for medical trainers and trainees alike.
► For the trainee it allows them to see and understand the rules of this new training paradigm thus allowing them to optimize their approach to training and reaching proficiency in as efficient a manner as possible.

Fundamentals of Surgical Simulation explains in detail, from a behavioural science/human factors perspective, why modern image guided medicine such as surgery, interventional cardiology and interventional radiology are difficult to learn and practice. Medicine is currently at a tipping point in terms of how physicians in procedural based medicine are trained. Fundamentals of Surgical Simulation helps drive this change and is a valuable resource for medical trainers and trainees alike. For trainers, this book gives explicit theoretical and applied information on how this new training paradigm works thus allowing them to tailor the application of simulation training to their program, no matter where in the world they work. For the trainee, it allows them to see and understand the rules of this new training paradigm thus allowing them to optimize their approach to training and reaching proficiency in as efficient a manner as possible. For the simulation researcher, engineer and medical profession Fundamentals of Surgical Simulation poses some difficult questions that require urgent unambiguous and agreed answers.

From the contents
Agents of change.- Simulations for procedural training.- Human factors in acquiring medical skills; Perception and Cognition.- Human factors in acquiring medical skills; Learning and skill acquisition in procedural medicine.- Metrics for the measurement of skill.- Metric based simulation training.- Validation of metrics coupled to simulation training.- Metric-based training to proficiency; What is it and how is it done?.- Didactic education and training for improved intra-operative performance; e-learning comes of age.- Simulation training for improved procedural performance.- Simulation in and for medicine; Where next?.- Proficiency-based progression simulation training; a to-do list for medicine.
Forthcoming
Due October 2011

2011. XII, 340 p. 434 illus., 373 in color.
Softcover
$59.95

Bookstore location
Medicine

Fields of Interest
Orthopedics; Surgical Orthopedics;
Conservative Orthopedics

Target Group
Professional/practitioner

Type of Publication
Contributed volume

Practical Procedures in Elective Orthopaedic Surgery
Pelvis and Lower Extremity
P. V. Giannoudis, University of Leeds, United Kingdom. (Ed.)

Features
► State-of-the-art contents
► Provides examples and step-by-step instructions
  with numerous illustrations
► With contributions by international experts

With the time available to surgeons-in-training ever dwindling, there is great emphasis placed on practical learning tools. Mirroring his earlier book on practical procedures in trauma surgery, Prof Giannoudis has produced a reference in more elective techniques. In most medical schools, most emphasis is placed on orthopaedic trauma surgery, with elective techniques often delayed until much later in a surgeon’s training.

From the contents
Photodynamic Therapy in Dermatology

M. H. Gold, Vanderbilt University, Nashville, TN, USA (Ed.)

Features

► Covers all photosensitizers available worldwide, how to use them, where, and best practices
► Organized by disease category Newest FDA approved photosensitizer included
► Contributions from leading US and European researchers on PDT
► Details on how to incorporate PDT into daily clinical practice

Photodynamic therapy is a proven effective treatment of actinically damaged skin cells, nonmelanoma skin cancers, and acne and other pilosebaceous conditions. As an agent for general facial rejuvenation it has untapped potential. The current state of PDT therapy and future applications are discussed in detail in this exciting new volume. Throughout, the focus is on evidence-based clinical uses of PDT, including pretreatment regimens, avoidance and management of complications, and posttreatment suggestions.

From the contents

Chronic Disorders in Children and Adolescents

M. L. Goldstein, Chicago, IL, USA; S. Morewitz, Stephen J. Morewitz, Ph.D. & Associates, San Francisco, CA, USA

Features

► Nice companion to other titles on chronic disease by Morewitz published by Springer
► Written from the healthcare administration perspective
► Covers epidemiology, healthcare utilization and costs
► Also covers clinical issues and psychosocial issues

There has been a significant increase in the prevalence of certain chronic disorders among children and adolescents. For example, health experts warn of an epidemic of diabetes mellitus due to an increase in the sedentary lifestyle and poor nutrition of children. There are many questions still to be addressed in the study of chronic disorders among children and adolescents. What are the risk factors associated with chronic diseases in these populations? What are the major complications that contribute to disability and increased health care utilization and costs? What impact do chronic diseases have on the psychosocial development? What are the most effective diagnostic, treatment, and rehabilitation strategies? How can patient education and self-management activities be improved to help children and adolescents improve compliance with treatment regimens? How can parents and other family members become more involved in assessment and management? In what ways can peers, schools, religious institutions, and other organizations help children and adolescent scope with their chronic disease? This book addresses these questions by focusing on how eight chronic disorders affect health care utilization, costs, coping, and health outcomes in children and adolescents. Research studies are used to illustrate wide range of topics from the epidemiology of chronic diseases in children and adolescents, health care utilization and costs, treatment outcomes, disability, and family processes. Case studies from a clinical psychologist's private practice are used to clarify major psychosocial issues underlying chronic diseases in these populations. Chapter One analyzes the epidemiology of eight chronic conditions in children and adolescents. Data on the prevalence of diseases and associated risk factors are stressed in this chapter. Health care planners can use these analyses to improve primary, secondary, and tertiary prevention through more effective uses of health care resources. Chapter Two examines the latest information on health care utilization and costs for children and adolescents that can point to a more efficient means of reducing the rising health care costs associated with the treatment of chronic diseases. In the remaining chapters, the eight chronic diseases are evaluated in terms of five major issues. First, the latest trends in complications associated with each chronic condition are explored. Second, the impact of each disease on disability and psychosocial development of children and adolescents are analyzed. Third, recent research findings on diagnosis, treatment, and rehabilitation strategies are discussed. Fourth, new trends in patient education and self-management are presented. Fifth, each chapter will assess the role of family, peers, schools, and other organizations in helping children and adolescents cope with their chronic disorders. Dr. Mark L. Goldstein, a clinical psychologist, reviews the literature and uses composite case studies from his practice to illustrate the impact of these trends on how children and adolescents manage chronic disease. The information in this book will be relevant to a wide range of professionals and students in the fields of pediatrics, medicine, nursing, public health, mental health, social work, education, health administration, health policy, and social sciences.
Sexually Transmitted Infections and Sexually Transmitted Diseases

G. Gross, University of Rostock, Germany; S. K. Tyring, University of Texas Health Science Center, Webster, TX, USA (Eds.)

Features
- Offers the latest research on diagnosis, treatment and management of STDs
- Structured for easy access, with “core messages” and “take-home pearls”
- Lavishly illustrated with superb color illustrations

This comprehensive, up-to-date reference book is intended to serve as the standard guide in the field. It covers the epidemiology and etiology of the various sexually transmitted infections and associated diseases, reviews novel diagnostic methods, and discusses in depth both new and established treatment methods. An important part of the book is devoted to prevention and particularly to immunoprevention by vaccination. Related issues such as sexual abuse, psychosocial aspects, and economic and political considerations are also included. The expertise of many worldwide renowned specialists and superb color illustrations make this book a valuable resource for practitioners from a variety of medical disciplines. It has a reader-friendly structure with “core messages” and “take-home pearls”.

From the contents
Neurodegenerative Disorders

A Clinical Guide

O. Hardiman, Beaumont Hospital, Dublin, Ireland; C. P. Doherty, St James’s Hospital, Dublin, Ireland (Eds.)

Features

► Provides a clear overview of the process of neurodegeneration and introduces a new synthesis of ideas in these disorders.
► Presents succinct clinical information in a standardized format for easy access
► Comprises of all the common neurodegenerative diseases, including conditions that may be misdiagnosed
► Provides a framework for clinical management based on the principles of palliative care for non-neoplastic disease

Neurodegenerative Disorders provides an accessible guide to the commonest neurodegenerative diseases, outlining the main clinical features, treatment options and outcomes of the conditions most frequently encountered in clinical practice.

Beginning with an overview of the general principles that underlie degeneration, and the contribution of established and new diagnostics techniques, the book goes on to describe the most common neurodegenerative conditions including Alzheimer Disease; Dementia and Cerebrovascular Disease; Parkinson’s Disease; Fronto-Temporal Dementia; Amyotrophic Lateral Sclerosis; Huntington’s Disease; Parkinsonism Plus syndromes and Prion Diseases.

Final chapters cover important management issues including the use of palliative care strategies, advance directives and competence.

Written by experts in the field internationally Neurodegenerative Disorders is a practical guide for clinicians that will be indispensable for the management of these conditions.

From the contents

Diabetes Care for the Older Patient
A Practical Handbook

G. Hawthorne, Newcastle Diabetes Centre, Newcastle Upon Tyne, UK. (Ed.)

Features
- A concise and practical guide to the specific issues surrounding diabetes care in older people
- Draws on an author pool comprising recognized experts in diabetes care in older people
- Includes matters of physical and mental health in caring for older people with diabetes

The management of older people with diabetes requires careful attention to the specific needs of this age group. This practical handbook addresses the issues surrounding the care of older diabetic patients, including dementia, frailty, depression and cardiovascular risk. Intended for day-to-day use in clinical practice, each chapter closes with a list of salient practical points in the clinical management of older patients with diabetes. Concisely written by authorities in the field, this book is a valuable resource for all those involved in the diabetes care of older people.

From the contents
Epidemiology of Diabetes in Older People.-Type 2 Diabetes and Dementia.-Depression in Older People with Diabetes.-Hypoglycaemia and the Older Person.-Cardiovascular Risk, Glucose and Targets for Management of Diabetes in Older People.-Diabetes and Frailty.-Perceptions of Users and Carers in Supporting Diabetes Care: Practical Guidance, Support and Information for Carers.-Management of Elderly People with Diabetes in Primary Care.-Appendix: HBA1c Conversion Chart for DCCT-aligned (%) and IFCC-standardised (mmol/mol) concentrations.
This volume mainly contains information on the diagnosis, therapy, and prognosis of brain tumors. Insights on the understanding of molecular pathways involved in tumor biology are explained, which should lead to the development of effective drugs. Information on pathways (e.g., hedgehog) facilitates targeted therapies in cancer. Tumor models are also presented, which utilize expression data, pathway sensitivity, and genetic abnormalities, representing targets in cancer. For example, rat model of malignant brain tumors using implantation of doxorubicin with drug eluting beads for delivery is explained. The future of pathway-driven therapies for tumors is summarized. The importance of personalized cancer care is emphasized. The need for supportive measures for survivors of brain cancer is pointed out, so is the quality of life monitoring. The need of rehabilitation therapy for patients with primary and metastatic brain tumors is also emphasized. Role of MicroRNA in distinguishing primary tumors from metastatic primary tumors is discussed. Advantages and limitations of chemotherapy (e.g., temozolomide and doxorubicin) are discussed. The complexity of tumor to tumor transfer is explained; examples discussed are: brain metastases from breast cancer and brain metastases from non-small cell lung carcinoma. Identification and characterization of biomarkers, including those for metastatic brain tumors, are presented. Genomic analysis for identifying clinically relevant subtypes of glioblastoma is included. A large number of imaging modalities are detailed to study progression and invasion of gliomas.

From the contents

Ischemic Optic Neuropathies

S. S. Hayreh, University of Iowa, College of Medicine, Iowa City, Iowa, USA

Features
- First comprehensive description on the various aspects of ischemic optic neuropathy
- Offers in-depth understanding of the related basic sciences, pathogenesis, clinical features and management of its various types
- Written by the leading authority in the field

Ischemic optic neuropathy, often referred to as a stroke of the optic nerve, is one of the major causes of visual impairment or loss of vision. Yet it is a highly controversial and confusing subject because of the general lack of in-depth scientific understanding of the subject. In this book the leading authority in the field describes in detail the current knowledge about the different forms of the often devastating disease. Insights into the underlying pathogenesis and peculiar clinical features are given, leading the reader to the most appropriate way of management. This information will help any physician dealing with patients who suffer from sudden loss of vision.

From the contents
High-Field MR Imaging

J. Hennig, Universitätsklinikum Freiburg; O. Speck, Otto-von-Guericke University Magdeburg (Eds.)

Features

- Discusses the possibilities, challenges, and limitations of high-field MR technology
- Explains the technological background in a non-technical and accessible way
- Examines the applications of high-field MR imaging in radiology, neuroscience, oncology, and other fields, with the aid of many high-quality illustrations
- Will appeal to radiologists, neuroscientists, oncologists and others with an interest in the field

This book describes the current status of the very rapidly developing field of high-field MR and examines the possibilities, challenges, and limitations of this fascinating technology. In the initial chapters, the basic technological background is explained in a non-technical way so as to promote understanding of the issues and concepts and avoid overwhelming the reader with excessive detail. Safety issues, methods, and contrast are then carefully considered. The final part of the book examines the diverse applications of high-field MR imaging in radiology, neuroscience, oncology, and other fields, with the aid of numerous high-quality illustrations. All chapters are written by leading experts who have taken great care to illustrate the potential and progress of the field in an informative and accessible manner. The book will appeal to all with a potential interest in the application of high-field MR imaging, including radiologists, neuroscientists, and oncologists.

From the contents

Age-related Macular Degeneration Diagnosis and Treatment
A. C. Ho, C. D. Regillo, Wills Eye Institute, Philadelphia, PA, USA (Eds.)

Features
- Written by leading experts from Wills Eye Hospital in Philadelphia, Pennsylvania, USA
- Concise, highly illustrated text covers diagnosis and treatment options for both neovascular and non-neovascular age-related macular degeneration (AMD), as well as less common forms of non-age-related macular degeneration
- Reviews both current treatments and emerging therapies, including monotherapy and combination therapy

Age-Related Macular Degeneration: Diagnosis and Treatment is written by two leading experts from Wills Eye Hospital. Covering the latest therapies and treatments developed in the last few years, this is a concise yet highly illustrated and practical text that guides the clinician through diagnosis and treatment of the leading cause of blindness in older Americans.

From the contents
Chapter 1 Genetics of Age-Related Macular Degeneration Daniel Kasuga, Yuhong Chen, and Kang Zhang Chapter 2 Modifiable Risk Factors of Age-Related Macular Degeneration Hanna R. Coleman Chapter 3 Diagnosis of Age-Related Macular Degeneration Jon Jonisch and Gaurav Shah Chapter 4 Fundus Imaging of Age-Related Macular Degeneration Allen Chiang, Andre J. Witkin, Carl D. Regillo, and Allen C. Ho Chapter 5 Therapy of Non-Exudative Age-Related Macular Degeneration Annal D. Meleth, Veena R. Raiji, Nupura Krishnadev, and Emily Y. Chew Chapter 6 Management of Neovascular AMD Fernando M. Penha and Philip J. Rosenfeld Chapter 7 Combination Therapy with Ocular Photodynamic Therapy for Age-Related Macular Degeneration Nathan Steinle and Peter K. Kaiser Chapter 8 The Future of Non-Neovascular (Dry) Age-Related Macular Degeneration Ketan Laud, Sri Krishna Mukkamala, Claudia Brue, and Jason S. Slakter Chapter 9 The Future of Neovascular Age-Related Macular Degeneration Chirag P. Shah and Jeffrey S. Heier Chapter 10 The Economics of Age-Related Macular Degeneration Gary C. Brown, Melissa M. Brown, Heidi B. Lieske, Philip A. Lieske, and Kathryn Brown
Pediatric Oncology
A Comprehensive Guide

P. Imbach, T. Kühne, Universität Basel, Switzerland; R. J. Arceci, John Hopkins University, Baltimore, MD, USA (Eds.)

Features

► Updated second edition with new chapters on rare disorders, genetic aspects, and palliative care
► Ideal, easy-to-use guide to the diagnosis and management of the oncological diseases encountered in children and adolescents
► Clear, consistent layout and concise, lucid style

Intended for a wide range of professionals – hospital physicians, specialist nurses, psycho-oncologists, physiotherapists, family doctors, and pediatricians

This is the second edition of a well-received compendium of information and guidance on the diagnosis and management of the various oncological diseases that are encountered in children and adolescents. For each disease entity, fundamental facts are provided that will be relevant for a range of professionals – hospital physicians, specialist nurses, psycho-oncologists, physiotherapists, family doctors, and pediatricians. Compared with the first edition, all chapters have been updated and entirely new chapters are included on rare disorders, genetic aspects, and palliative care. Throughout, rapid orientation is ensured by the clear, consistent layout and the concise, lucid style. Pediatric Oncology: A Comprehensive Guide is an excellent, easy-to-use reference that belongs on the shelf of every practitioner who encounters or treats malignancies in the pediatric age group.

From the contents

2nd Edition

**Neuroanatomy for the Neuroscientist**

S. Jacobson, Tufts University, Boston, MA, USA; E. M. Marcus, University of Massachusetts, MA, Worcester, USA

**Features**

- Presents fundamental anatomical features of the nervous system from a basic science view for neuroscience students/researchers who do not have prior knowledge of neuroanatomy
- Provides an updated approach to lesion localization in neurology, utilizing the techniques of computerized axial tomography (CT scanning), magnetic resonance imaging (MRI), and magnetic resonance angiography (MRA)
- Multiple illustrations demonstrating the value of these techniques in clinical neurology and neuroanatomical localization have been provided

In this day where research grants are the primary focus, many young investigators are thrown into neurosciences courses without any prior preparation in neuroanatomy. This book is designed to help prepare them by introducing many of the fundamentals of the nervous system. It represents the essentials of an upper level biology course on the central nervous system. It is not designed to be a clinical approach to the nervous system, but rather it approaches the nervous system from a basic science perspective that intertwines both structure and function as an organizing teaching and learning model. Medical and dental examples are included but the main focus is on neuroscience.

**From the contents**

CMR and MDCT in Cardiac Masses

A. Jacquier, La Timone University Hospital, Marseille, France

**Features**
- Devoted solely to the imaging of cardiac masses
- Reviews the different CMR sequences and CT acquisition protocols and their diagnostic capabilities
- Offers a fully illustrated compendium of clinical cases, tables summarizing data, and decision-making trees essential in everyday practice
- Excellent source of information for cardiac imaging assignments

This book, unique in focusing specifically on cardiac masses, is the result of cooperation among a number of teams of radiologists working under the aegis of the French Society of Cardiovascular Imaging (SFICV). Its goal is to review the different CMR sequences and CT acquisition protocols used to explore cardiac masses, highlighting their diagnostic capabilities. It has been designed as a teaching tool and offers a fully illustrated compendium of clinical cases, tables summarizing data, and decision-making trees essential in everyday practice. It is presented as a practical handbook and can be either read cover to cover or consulted whenever needed during a cardiac imaging assignment. The book is intended for all students and experienced practitioners, whether radiologists or not, who are interested in cardiac or thoracic pathology.

**From the contents**
Introduction.- Technical Aspect.- Anatomic Pitfalls.- Cardiac Thrombus.- Benign Tumors.- Infectious Lesions.- Malignant Tumors.- Synoptic Tables.
2nd Edition

Advances in Radiation Oncology in Lung Cancer

B. Jeremic, Institute of Lung Diseases, Sremska Kamenica, Serbia (Ed.)

Features

- Only book to consider in detail all aspects of the radiation oncology of lung cancer
- Presents and discusses the latest knowledge on the role of different treatment strategies and their outcomes and toxicities
- Written by leading lung cancer specialists of world renown

This is the second, completely updated edition of a comprehensive book in which many of the world's leading lung cancer specialists discuss the recent advances in the radiation oncology of lung cancer and reflect on the latest research findings. The first three sections cover the basic science of lung cancer, clinical investigations, including histology and staging, and a wide range of fundamental treatment considerations. Current treatment strategies for small cell and non-small cell lung cancer are then explained and evaluated in detail, with due attention to novel approaches that promise further improvements in outcome. The various types of treatment-related toxicity are discussed, and quality of life studies and prognostic factors are also considered. After evaluating the latest technological and biological advances, including IMRT, IMAT, cyber knife treatment, and tomotherapy, the book concludes by thorough consideration of specific aspects of clinical research in lung cancer.

From the contents

Case Studies in Abdominal and Pelvic Imaging

R. Joarder, N. Crundwell, Radiology Department, Conquest Hospital, Hastings, UK; M. Gibson, Royal Berkshire Hospital, Reading, UK

Features
► Including 2 to 4 images per case, the reader is provided with a broad coverage of the particular chest condition.
► High quality up-to-date relevant images ensure that the case study images match the quality of those used in the hospital.
► Key points of each case facilitates learning how to diagnose the various chest conditions.
► A good mix of cases is presented, so that the reader enjoys a broad survey of the chest conditions they may encounter.

Case Studies in Abdominal and Pelvic Imaging presents 100 case studies, covering both common every-day conditions of the abdomen and pelvis, as well as less common cases that junior doctors and radiologists in training should be aware of. Compiled by experts in the field, Case Studies in Abdominal and Pelvic Imaging uses the most up-to-date and high quality images, including plain films, CT scans, MRI scans and the occasional nuclear medicine image where relevant.

Each case is presented in a pedagogical style, with 1-4 images and accompanying questions, followed by answers and further relevant images. This is then augmented by an explanation of the imaging and key teaching points with references for further reading, making this book a valuable learning guide in an accessible form.
Retroperitoneal Robotic and Laparoscopic Surgery

J. V. Joseph, University of Rochester, NY, USA; H. R. Patel, University Hospital of North Norway, Tromsø, Norway (Eds.)

Features

- The structure of each chapter means the reader is provided with a well-rounded, definitive guide to extraperitoneal laparoscopic and robot assisted procedures.
- Well-illustrated – complements the finer details of the book.
- Written by a number of experts in the field of urology and laparoscopy worldwide.
- Will appeal to novices, intermediate and advanced laparoscopists alike.
- The ‘step by step’ style of the book makes it easy to understand, and quick to read.

Retroperitoneal Robotic and Laparoscopic Surgery provides urologists with an easy way to learn the extraperitoneal alternative when performing laparoscopic or robot assisted procedures. There are significant technical differences between intra-peritoneal and retroperitoneal surgery. There are occasions, particularly with a history of prior intra-abdominal surgeries, when the retroperitoneal route is not only less invasive, but provides an efficient and effective way of performing the operation.

Retroperitoneal Robotic and Laparoscopic Surgery is a step-by-step guide of all extraperitoneal laparoscopic and robot assisted procedures. This book will support beginners in making the transition from open extraperitoneal to laparoscopic or robotic extraperitoneal procedures. It is also a valuable reference tool to further assist the intermediate and advanced laparoscopist to expand their skills working in the extraperitoneal space.

From the contents

- Anatomical Aspects of the Extra- and Retroperitoneal Space
- Essential Instruments in Laparoscopic and Robotic Surgery
- Upper Tract Retroperitoneal Access Techniques
- Laparoscopic Adrenalectomy
- Retroperitoneoscopic Simple and Radical Nephrectomy
- Laparoscopic and Robotic Partial Nephrectomy
- Retroperitoneal Robotic Partial Nephrectomy
- Laparoscopic and Robotic Mid and Distal Ureteral Reconstructive Surgery
- Robot Assisted Laparoscopic Nephroureterectomy
- Laparoscopic Pelvic Lymphadenectomy in Prostate Cancer
- Laparoscopic Simple Prostatectomy
- Extraperitoneal Laparoscopic Radical Prostatectomy
- Robotic-Assisted Extraperitoneal Laparoscopic Prostatectomy
- Laparoendoscopic Single-Site Retroperitoneal Surgery
- On the Horizon
Cardiothoracic Surgery in the Elderly

M. R. Katlic, Geisinger Wyoming Valley Medical Center, Department of Thoracic Surgery, Wilkes-Barre, PA, USA (Ed.)

Features

 ► Presents both evidence and techniques for cardiac surgery in the elderly to establish the best possible outcomes for patients
 ► First book to review the substantial body of knowledge that has been developed in recent years related to geriatric cardiothoracic surgical problems
 ► Features the foremost knowledge and expertise of the pioneers in geriatric surgery.

Cardiothoracic Surgery in the Elderly: Evidence Based Practice is an important and timely book that reflects the thoughtful work of pioneers in geriatric surgery. It encompasses their knowledge related to geriatric surgery, and their reflections and guidance on the rapidly accumulating knowledge related to improving the health and surgical care of seniors. This book provides a scholarly review of the constantly expanding knowledge base about cardiovascular and thoracic surgery in seniors. The book follows a logical sequence covering general aspects of care, cardiac surgery and thoracic surgery. Chapters are focused on common, devastating and often missed complications of surgical care in the seniors. These include delirium, depression, pressure sores, functional losses, incontinence, volume depletion and asymptomatic or atypical complications - myocardial infarction, post-operative diarrhea, urinary track infections and pneumonia. Each is expertly reviewed. Strategies to help the surgeons and the surgical team anticipate, recognize and effectively prevent or manage such problems are discussed and the evidence basis for such strategies is provided.

Cardiothoracic Surgery in the Elderly: Evidence Based Practice is particularly timely and the first to review the substantial body of knowledge that has been developed in recent years related to geriatric cardiothoracic surgical problems. It catalogs well the expanding knowledge basis for achieving successful surgical outcomes in the very old. It provides a most useful resources for cardiovascular thoracic surgeons in training and those already in practice.

From the contents
Autoimmune Diseases
Acute and Complex Situations

M. A. Khamashhta, Kings College, London, UK; M. Ramos-Casals, Hospital Clinic, Barcelona, Spain (Eds.)

Features

- An overview of the main complex and acute clinical situations occurring in patients with Systemic Autoimmune Disease assists the reader to quickly and easily locate the different life-threatening, complex situations in separate chapters for each disease.

- Descriptions of the latest clinical and immunological prognostic factors that may help to identify patients at higher risk of developing potentially life-threatening involvement aids the reader to diagnose these patients, in whom an early therapeutic approach is essential.

- The inclusion of nearly 100 images and diagnostic/therapeutic algorithms illustrates the text with clinical photographs of the main organs involved, and helps the reader to make diagnostic and therapeutic decisions.

- The most up-to-date opinions of the leading international clinical experts on the management of these difficult situations assists the reader to make decisions in situations for which there is currently an almost-complete lack of information from any source.

- An exhaustive therapeutic update, specifically focused on new agents and experimental techniques for managing complex situations informs the reader of recent advances in the therapeutic management of severe clinical situations, and suggests therapeutic guidelines according to a hierarchy of evidence consistent with evidence-based sources.

Autoimmune Diseases: Acute and Complex Situations provides a detailed overview of conditions associated with autoimmune diseases that are considered either life-threatening or requiring complex management. These include abdominal pain, arthritis, cutaneous ulcers, gastrointestinal hemorrhage, epilepsy, pancreatitis, stroke and white-matter CNS lesions. Autoimmune Diseases: Acute and Complex Situations addresses the latest clinical and immunological prognostic factors that may help to identify patients at higher risk of developing potentially life-threatening involvement. This book comprehensively helps the reader to diagnose these patients, in whom an early therapeutic approach is essential. Autoimmune Diseases: Acute and Complex Situations is a valuable reference tool for rheumatologists, internists, immunologists, and all the specialists involved in the multidisciplinary care of patient with rheumatic and systemic autoimmune diseases.
Available

Lymphedema
A Concise Compendium of Theory and Practice
B. Lee, George Washington University, Washington, DC, USA; J. Bergan, University of California, La Jolla, CA, USA; S. G. Rockson, Stanford University School of Medicine, Stanford, CA, USA (Eds.)

Features
► 30 authors selected upon internationally known clinicians in this field.
► The grading of the recommendations depending on the evidence base provides users with a thorough grounding in the diagnostic tests and treatments.
► Recognises the synergies between lymphologists and phlebologists in treating this particular disease
► Exclusively reports on the findings of the IUP Consensus panel 2009

Lymphedema: A Concise Compendium of Theory and Practice brings into one volume the most important sources of information to guide the evaluation and treatment of patients with lymphedema. The management of chronic lymphedema continues to challenge both patients and treating physicians worldwide. In the past decades, however, substantial progress has been achieved for both diagnosis and therapy of these disabling conditions. With increasing attention to the quality of life, this debilitating life-long disease is receiving more attention not only by lymphedema specialists, but also by clinicians across the spectrum of health care delivery. Lymphedema: A Concise Compendium of Theory and Practice provides clear, concise background and recommendations in an easy-to-use format. It is a valuable reference tool for clinical practitioners (physicians/nurse practitioners/technicians) who wish to deliver state-of-the-art health care to their patients with lymphatic and venous disorders.

From the contents
Available

Handbook of Practical Immunohistochemistry
Frequently Asked Questions
F. Lin, J. Prichard, Geisinger Medical Center, Danville, PA, USA (Eds.)

Features
► Each chapter written by a nationally/internationally recognized expert
► Provides a conceptually current, quick-reference, question-and-answer format
► Grants access to immunohistochemical laboratory website
► Includes more than 600 high-quality images

In a conceptually current, quick-reference, Question & Answer format, the Handbook of Practical Immunohistochemistry: Frequently Asked Questions provides standardization of the immunostaining process for each antibody and for each staining panel. With links to the authors Immunohistochemical Laboratory website, this volume creates a current and up-to-date information system on immunohistochemistry. This includes access to tissue microarrays (TMA) of over 5,000 tumors to validate common diagnostic panels and provide the best reproducible data for diagnostic purposes.

Chapters are presented in a unique Question and Answer format. One table/IHC panel is provided to address each question. A concise explanatory note follows each table/panel to avoid diagnostic pitfalls. Website links are provided throughout to update the massive information in this field, providing the most current knowledge and the potential for live expert consultation. All chapters are written by nationally/internationally recognized experts in the related area ensuring authority and excellence.

Comprehensive yet practical and concise, the Handbook of Practical Immunohistochemistry: Frequently Asked Questions, will be of great value for surgical pathologists, pathology residents and fellows, cytopathologists, and cytotechnologists.

From the contents
Skeletal Atlas of Child Abuse
J. C. Love, S. M. Derrick, J. M. Wiersema, Harris County Institute of Forensic Sciences, Houston, TX, USA

Features
► High quality images
► Ideal captions to enlighten the reader
► Authored by leading scientists and researchers

This illustrated guide to the role of the forensic anthropologist in investigating child abuse is an essential resource in one of the most contentious areas of forensic pathology. Not only does it supply a review of the literature in this field, but it illustrates the material with photographs from real cases investigated by the Harris County Institute of Forensic Sciences, which serves a population of four million people. Broken down into body regions and skeletal elements for ease of reference, the atlas facilitates the vital work performed by forensic anthropologists, who bring to the autopsy table a store of specialist knowledge that can turn a case.

Despite the frequency of child fatalities (in America, 2.3 per 100,000) attributed to physical abuse, merely recognizing the offense is a major forensic challenge. The tell-tale signatures of non-accidental injury can be very subtle, making it difficult to differentiate between accidental and non-accidental injury. Yet successful adjudication of a child abuse case often rests on the correct interpretation of skeletal injury.

In this volume the authors guide the reader through published data regarding the mechanics and interpretation of injuries, including the agencies they indicate. The material includes discussion of the limitations faced in interpreting some injuries, where making a judgment on cause is tricky. In addition, a chapter on natural diseases affecting the bones provides a good overview of several conditions that are often invoked as ‘mimics’ of child abuse. Finally, this publication evinces the value of collaboration between the pathologist and the anthropologist.

From the contents
Venous Embolization of the Liver
Radiologic and Surgical Practice
D. C. Madoff, New York-Presbyterian Hospital/Weill Cornell Medical Center, New York, NY, USA; M. Makuuchi, University of Tokyo, Tokyo, Japan; M. Nagino, Nagoya University Graduate School of Medicine, Nagoya, Japan; J. Vauthey, The University of Texas M. D. Anderson Cancer Center, Houston, TX, USA (Eds.)

Features
► Many detailed illustrations of liver segmental and vascular anatomy and embolization techniques
► State-of-the-art imaging and intraoperative photography will be used to highlight these innovative techniques
► Graphs and tables will be used to provide detailed outcome data for comparisons of various embolic agents and techniques as well as survival outcomes for various hepatobiliary diseases for which venous embolization will be utilized.

Venous Embolization of the Liver: Radiologic and Surgical Practice explores the theoretical advantages and clinical implications for utilizing Venous Embolization techniques, including portal vein and hepatic vein embolization. The practice of venous embolization of the liver was originally developed in Japan by Dr. Makuuchi (one of the co-editors of this book) in 1990 and since then, the techniques reviewed in this book are practiced throughout the world and are now considered the “standard of care” at many hepatobiliary centres worldwide. Venous Embolization of the Liver: Radiologic and Surgical Practice covers a multitude of topics, including: pertinent vascular (microscopic and macroscopic) and surgical anatomy, liver regeneration (including the atrophy-hypertrophy complex), historical perspectives of major hepatic resection, various hepatobiliary surgical procedures, factors affecting hypertrophy, pathophysiology of embolization and resection, embolization techniques (including approaches and embolic agents), the indications for embolization and resection (including pre-operative volumetric and functional assessment and post-embolization followup), potential complications, outcomes data for different diseases, recently advocated strategies (including “definitive” treatment of hepatocellular carcinoma using portal vein embolization after transcatheter arterial chemembolization) and future perspectives. This book is a valuable resource for interventional radiologists and hepatobiliary surgeons who perform the embolization procedures and liver resections. Venous Embolization of the Liver: Radiologic and Surgical Practice can also be used secondarily by diagnostic radiologists, medical oncologists specializing in gastrointestinal malignancies, hepatologists, gastroenterologists, liver transplant surgeons and basic scientists interested in liver regeneration physiology research.

From the contents
Challenging Cases in Pulmonology

M. Mahmoudi, University of California San Francisco, CA, USA (Ed.)

Features
► Concise resource and teaching tool containing numerous practical points
► Written by leading physicians, providing their own opinions based on their experience in clinical practice
► Covers full range of common respiratory disorders, with a focus on common, everyday problems
► Offers helpful multiple choice questions to reinforce learning

From acute respiratory diseases to chronic lung conditions, pulmonology is a vital area of clinical medicine. Due to a wide array of respiratory diseases, clinical presentation of pulmonary conditions can be complex and oftentimes challenging. In addition to recognizing common characteristics of lung diseases, identifying unusual clinical presentation of pulmonary conditions remains an important educational experience. This concise and easy-to-read title provides that experience in practical context, using a case-based system of learning where a unique case is presented and discussed and questions are provided to challenge the learner and reinforce the transmission of knowledge. Challenging Cases in Pulmonology is not an exhaustive review but rather focuses on common and important problems, with emphasis on evaluation and treatment. The book offers 16 chapters consisting of two or more cases followed by five to ten multiple choice questions. A valuable resource for pulmonologists, allergists, primary care physicians, internal medicine, fellows in allergy and pulmonology, and residents in training, this practical title will also be of interest to nurses, physician assistants, and medical students studying pulmonology. Challenging Cases in Pulmonology complements two previously published case-based titles edited by Dr. Mahmoudi: Challenging Cases in Allergy and Immunology (Humana Press, 2009) and Challenging Cases in Allergic and Immunologic Diseases of the Skin (Springer, 2010).

From the contents
Evidence Based Pathology and Laboratory Medicine

A. M. Marchevsky, Cedars-Sinai Medical Center, UCLA School of Medicine, Los Angeles, CA USA; M. Wick, University of Virginia School of Medicine, Charlottesville, VA USA (Eds.)

Features
► Focuses on practical patient related issues
► Develops diagnostic models
► Use of meta-analysis to investigate unusual diseases

Focusing on practical, patient related issues, this volume provides the basic concepts of Evidence Based Medicine (EBM) as they relate to Pathology and Laboratory Medicine and presents various practical applications. It includes EBM concepts for use in the identification of cost-effective panels of immunostains and other laboratory tests and for improvement of diagnostic accuracy based on the identification of selected diagnostic features for particular differential diagnosis. EBM concepts are also put forth for use in Meta-analysis to integrate the results of conflicting literature reports and use of novel analytical tools such as Bayesian belief networks, neural networks, multivariate statistics and decision tree analysis for the development of new diagnostic and prognostic models for the evaluation of patients. This volume will be of great value to pathologists who will benefit from the concepts being promoted by EBM, such as levels of evidence, use of Bayesian statistics to develop diagnostic and other rules and stronger reliance on “hard data” to support therapeutic and diagnostic modalities.

From the contents
Introduction to Evidence-Based Pathology and Laboratory Medicine.- Evidence-Based Pathology: A Stable Set of Principles for a Rapidly Evolving Specialty.- What Is Best Evidence in Pathology?- Biostatistics 101.- Prognostication and Prediction in Anatomic Pathology: Carcinoma of the Breast as an Illustrative Model.- Principles of Classification and Diagnosis in Anatomic Pathology and the Inevitability of Problem Cases.- Evaluating Oncopathological Studies: The Need to Evaluate the Internal and External Validity of Study Results.- Power Analysis and Sample Sizes in Pathology Research.- Meta-Analysis: A Statistical Method to Integrate Information Provided by Different Studies.- Decision Analysis and Decision Support Systems in Anatomic Pathology.- Evidence-Based Approach to Evaluate Information Published in the Pathology Literature and Integrate It with Personal Experience.- Evidence-Based Cell Pathology Re-visited: A Personal View.- Development of Evidence-Based Diagnostic Criteria and Prognostic/Predictive Models: Experience at Cedars Sinai Medical Center.- Evaluation and Reduction of Diagnostic Errors in Pathology Using an Evidence-Based Approach.- Metaanalysis 101 for Pathologists.- Evidence-Based Practices in Applied Immunohistochemistry: Dilemmas Caused by Cross-Purposes.- Evidence-Based Pathology and Laboratory Medicine in the Molecular Pathology Era: Transition of Tests from the Research Bench into Practice.- The Use of Decision Analysis Tools for the Selection of Clinical Laboratory Tests: Developing Diagnostic and Forecasting Models Using Laboratory Evidence.- Implementation and Benefits of Computerized Physician Order Entry and Evidence-Based Clinical Decision Support Systems.- Evidence-Based Pathology and Tort Law: How Do They Compare?-. Index.
Handbook of Headache
Practical Management

P. Martelletti, Sapienza University of Rome, Italy; T. J. Steiner, Imperial College London, UK (Eds.)

Features

► Headache disorders are one of the most common disorders of the nervous system
► Headaches are in the top ten causes of disability worldwide, for this reason, Headache Medicine has been incorporated in the priority strategies of international scientific societies, as well as of health care providers
► This book will provide a useful tool and could also represent for medical students a compendium focused on a topic to which they are usually introduced through multidisciplinary university programs

Headache disorders are among the most common disorders of the nervous system. They are pandemic and, in many cases, they are recurrent and can accompany the patient for the whole life. These disorders impose a substantial burden on headache sufferers, on their families and on society: the individual impact is measured by the frequency and severity of attacks, while the societal burden is measured in terms of loss of activity at work and school as well as of costs for the health system. As a matter of facts, headaches are ranked in the top ten, and maybe the top five, causes of disability worldwide: they are therefore extraordinarily common.

Population-based studies have mostly focused on migraine, which, even if it is the most frequently studied headache disorder, is not the most common. Other types of headache, such as the more prevalent TTH and sub-types of the more disabling chronic daily headache, have so far received less attention and need to be better investigated.

This book will provide a useful tool to a wide medical population, who is required specific skills to diagnose and manage these frequent and often disabling disorders. Furthermore, it could also represent a compendium for medical students who are usually introduced to this topic through multidisciplinary university programmes.

From the contents

Pediatric Sedation Outside of the Operating Room

A Multispecialty International Collaboration

K. P. Mason, Children’s Hospital, Boston, MA, USA (Ed.)

Features

- Comprehensive presentation of pediatric sedation across all specialties worldwide
- Case studies of real-life difficult clinical situations
- International roster of leaders in sedation
- Directed towards specialists in anesthesia, gastroenterology, oncology, radiology, internal medicine, nursing, hospital administration, pediatrics, dental, intensive care, emergency and hospital medicine

This comprehensive guide provides tips and instruction for the entire range of specialists that utilize pediatric sedation. Each specialty receives tailored coverage that focuses on its unique patient population, challenges, potential solutions, and sedation techniques. Each chapter is written by a leading specialist in the field. A comprehensive spectrum of pediatric sedation will be covered, which will be of interest to oncologists, pediatricians, hospitalists, intensivists, radiologists, emergency medicine specialists, anesthesiologists, nurses, dentists, and gastroenterologists. Background chapters cover pharmacology as well as pediatric anatomy, with special focus on the airway and respiratory mechanics. The future of pediatric sedation is also reviewed as well as the cutting-edge research that is being done in the field.

From the contents

Master Techniques in Blepharoplasty and Periorbital Rejuvenation

G. G. Massry, MD, Massry Beverly Hills Ophthalmic Plastic and Reconstructive Cosmetic Surgery, Beverly Hills, CA, USA; M. R. Murphy, MD, Palm Beach Facial Plastic Surgery, Palm Beach Gardens, FL, USA; B. Azizzadeh, MD, Assistant Clinical Professor, UCLA, Los Angeles, CA, USA (Eds.)

Features

► Edited by leading experts in a variety of specialties including facial plastic surgery, oculoplastic surgery, and reconstructive and cosmetic blepharoplasty
► Complementary textbook to the editor’s best-selling textbook on facial rejuvenation
► Provides a unique and comprehensive understanding of cosmetic brow lifting, blepharoplasty and midface surgery

Master Techniques in Blepharoplasty and Eyelid Reconstruction is a comprehensive, multi-specialty textbook and surgical atlas on blepharoplasty and eyelid reconstruction, presenting multiple competing and complementary techniques by the leading experts in the field of plastic surgery, facial plastic surgery, and oculoplastic surgery. Only the most pioneering and time-tested surgical procedures are presented in step-by-step, illustrative detail. All areas of eyelid surgery are covered in a balanced and systematic approach. An accompanying on-line surgical atlas shows digitally videotaped procedures by the leading authors, extremely useful to any surgeon interested in blepharoplasty. Master Techniques in Blepharoplasty and Eyelid Reconstruction is the definitive textbook and atlas for any surgeon who interested in this topic.
2nd Edition

**Image-Guided Spine Interventions**

J. Mathis, Center for Advanced Imaging, Roanoke, VA, USA; S. Golovac, Space Coast Pain Institute, Merritt Island, FL, USA (Eds.)

**Features**

- Completely revised edition that contains updated text, including new sections and chapters
- Features an accessible and reader friendly format
- Ideal aid for radiologists and other physicians who deal with back pain

As image-guided spine interventions have increasingly become a primary strategy for managing back pain, the tools and capabilities available to practitioners have grown significantly. This fully revised edition of Image-Guided Spine Interventions presents the latest procedures available to physicians who perform minimally invasive spine interventions. The comprehensive text covers the fundamentals—such as spine anatomy, procedural materials, and pharmacological requirements—along with chapters devoted to key topics such as discography, percutaneous discectomy, vertebroplasty and balloon kyphoplasty, epidural steroid injections, and autonomic nerve blocks. Additionally, three new chapters are included in the Second Edition, covering pulsed radiofrequency procedures, sacroplasty, and spinal cord stimulation. Each technique is presented in a straightforward manner that allows the reader to effectively evaluate and implement new procedures. The text is further enhanced by nearly 200 images and illustrations.

Edited by Dr. John Mathis, a former president of the American Society of Spine Radiology, and Dr. Stanley Golovac, who both have clinical practices devoted solely to spine procedures and pain management, the book will be useful to all physicians dealing with back pain, including radiologists, pain anesthesiologists, spine neurosurgeons, and orthopedists. Physicians will once again find that Image-Guided Spine Interventions, 2nd Edition, is the pivotal authority on image-guided techniques for the spine.

**From the contents**

Handbook of Pediatric Chronic Pain
Current Science and Integrative Practice

B. C. McClain, Director of Pediatric Pain Management Services, Associate Professor of Anesthesiology, Pediatrics Yale University School of Medicine, New Haven, CT, USA; S. Suresh, Vice Chairman & Director of Research & Pain Medicine, Department of Pediatric Anesthesiology, Children's Memorial Hospital, Northwestern University Feinberg School of Medicine, Chicago, IL, USA (Eds.)

Features
▶ Science of chronic pain in children is balanced by practical care plans and algorithms
▶ Rationales for treatment are guided by up-to-date reviews and exhaustive references
▶ Highly comprehensive, including many "pearls" in the recognition and management of childhood chronic pain syndromes

The purpose of this text is to provide not only the science and current knowledge of pediatric pain management but a rationale for intervention. The book is ground-breaking in that it provides pearls for the recognition and management of multiple childhood chronic pain syndromes. Also, uncommon yet confounding issues such as pain management for epidermolysis bullosa are adequately addressed. Concerns unique to pediatric patients are reviewed. While there are no firm standards in pediatric chronic pain, a care plan is offered to help guide practitioners when possible.

The book will consist of 24 chapters, many co-written by a physician and a psychologist. Chapter 1 covers the history of pediatric chronic pain, the advancement pediatric pain as a clinical subspecialty, development of pediatric pain clinics, and characterization of the common pain syndromes. Chapters 2-4 cover, respectively, the research on early pain exposure and neuroplasticity, theories on the common adolescent pain syndromes, and the demographics of chronic pain in children. Chapters 5-16 discuss approaches to assessment and intervention for specific pediatric and adolescent pain syndromes. Chapters 17-23 address interventional techniques such as therapeutic blocks, neurablation, implantable systems, physical therapy, complementary therapy, and pharmacology including opioid tolerance. The final chapter discusses the role of the nurse practitioner in pediatric chronic pain.
Laparoscopic Gastric Banding

K. Miller, Krankenhaus Hallein, Germany

Features

- Unique view to laparoscopic gastric banding
- With many color illustrations
- Written by an expert
- State-of-the-art contents

The Operation Primer provides excellent photographic step-by-step guidance to the surgical procedure. It has been produced to describe the operation in the simplest manner possible without over-simplifying. The core of the Operation Primer is the section on Nodal Points, where the surgical key steps are described in detail. This surgical guide book provides essential reference material to surgeons wishing to update their knowledge in this specific area.

From the contents

- Hasson method (open technique).
- Trocar with optical obturator.
- Veress needle (closed technique).
- acing the working trocars
- Exploring the abdominal cavity.
- Identifying the anatomical landmarks.
- Dissecting the Pars flaccid;
- Dissecting the Angle of His.
- Introducing the gastric band.
- Creating the retrocardial tunnel and connecting the gastric band with Goldfinger™.
Nuclear Medicine Technology Study Guide
A Technologist’s Review for Passing Board Exams
A. Moniuszko, Alexian Brothers Health System, Arlington Heights, IL, USA; D. Patel, Alexian Brothers Health System, Elk Grove Village, Illinois, USA

Features
► Over 600 multiple-choice questions and answers organized by level of difficulty

Nuclear Medicine Technology Study Guide presents a comprehensive review of nuclear medicine principles and concepts necessary for technologists to pass board examinations. The practice questions and content follow the guidelines of the Nuclear Medicine Technology Certification Board (NMTCB) and American Registry of Radiological Technologists (ARRT), allowing test takers to maximize their success in passing the examinations. The book is organized by sections of increasing difficulty, with over 600 multiple-choice questions covering all areas of nuclear medicine, including radiation safety; radionuclides and radiopharmaceuticals; instrumentation and quality control; patient care; and diagnostic and therapeutic procedures. Detailed answers and explanations to the practice questions follow. Supplementary chapters will include nuclear medicine formulas, numbers, and a glossary of terms for easy access by readers. Additionally, test-taking strategies are covered.

From the contents
Tackling the Multiple-Choice Test.- Test I.- Test II.- Test III.- Formulas, Numbers, and Normal Range of Values.- Commonly-Used Abbreviations and Symbols in Nuclear Medicine.- Useful Websites.-
Preventative Dermatology in Infectious Diseases

R. A. Norman, Dermatology Healthcare, Tampa, FL, USA (Ed.)

Features

► Chapters written by experienced dermatologists and physicians from around the world
► Deals with a subject of currently increasing interest
► Information gathered into one comprehensive dermatological text

The physician's responsibility continues to increase daily while providing health care in the 21st century; not only in keeping up with the increase of information, but also having to pay more attention to patient compliance. In addition, patients are educated, and often appreciate participation with a provider about treatment and medication choice. Often they have access to the Internet and other medical information and want to make informed choices along with their physician. Preventive Dermatology in Infectious Diseases will convey prevention and medication information to patients and thus help them reap the benefits of participating in their own health care and disease reduction.

From the contents
Lasers in Dermatology and Medicine

K. Nouri, University of Miami Leonard M. Miller School of Medicine, Miami, FL, USA (Ed.)

Features

► Includes the most up-to-date information on laser therapy
► Comprehensive textbook for all fields of medicine that use laser therapy
► Chapters written by experienced physicians
► Colorful and easy to read, with numerous pictures
► Features overview and summary boxes listing the key points of each chapter

Laser technology is constantly evolving and progressing. The use of laser therapy is vastly expanding and for this reason a medical book of this magnitude is necessary. Lasers and Light Therapy includes an up-to-date comprehensive look at lasers and light therapy not only in the field of Cutaneous Laser Surgery, but in other medical specialties as well.

From the contents

**The Poly-Traumatized Patient with Fractures**

A Multi-Disciplinary Approach

H. Pape, University of Aachen, Germany; R. Sanders, Florida Orthopedic Institute, Temple Terrace, FL, USA; J. Borrelli, Jr., Southwest Medical Center, Dallas, TX, USA (Eds.)

**Features**

| ► Practical guide written by international experts in the field |
| ► Covers trauma and orthopedics in an integrated fashion |
| ► Combines anatomic location with frequent injury combinations |

This guide provides practical information for the care of patients with blunt injuries. It covers the care for truncal injuries (head, chest, abdomen) and fracture care of the extremities, the pelvis and the spine in a condensed fashion. Unlike previous, anatomically oriented outlines, this combines the anatomic location with frequent injury combinations. It is written for orthopedic and trauma surgeons, offering them a condensed outline of fracture treatment. In addition, all aspects of trauma care are covered, including associated injuries that may alter the decision making in patients with polytrauma.

**From the contents**

Robotic Urologic Surgery, Second Edition is an updated and revised technical manual focusing on the various robotic approaches to robotic urologic surgical procedures. This book provides instructions on how to develop a successful robotics program, learn the various techniques, and improve outcomes. It also aids the reader with helpful hints to avoid pitfalls.

Robotic Urologic Surgery, Second Edition includes up-to-date contributions from leading robotic urologic surgeons from around the world. The detailed body of data which this book provides is supported by schematic diagrams and anatomic photographs to illustrate the concept being discussed. Robotic Urologic Surgery, Second Edition is an essential guide for all urologists as a reference to establish a robotics program, refine their surgical technique, and provide information to patients.

From the contents

3rd Edition

Drug Interactions in Infectious Diseases

S. C. Piscitelli, GlaxoSmithKline, Research Triangle Park, NC, USA; K. A. Rodvold, University of Illinois at Chicago, Chicago, IL, USA; M. P. Pai, Albany College of Pharmacy, Albany, NY, USA (Eds.)

Features

► Definitive reference source of up-to-date information on antimicrobial drug interactions
► Informative tables on the degree of interaction for specific antimicrobial agents
► New chapters on non-HIV antiviral, antimalarial, antiparasitic, and macrolide, azalide and ketolide agents

The revised and up-to-date third edition of Drug Interactions in Infectious Diseases delivers a text that will enhance your clinical knowledge of the complex mechanisms, risks, and consequences of drug interactions associated with antimicrobials, infection, and inflammation. The third edition features five new chapters that cover material not addressed in previous editions. These new chapters describe interactions with a number of drug classes such as non-HIV antiviral, antimalarial, antiparasitic, antihelmintic, macrolide, azalide and ketolide agents. A novel chapter on probe cocktail studies has been included to highlight an important research tool for drug development. These chapters address material that cannot be retrieved easily in the medical literature. The highly acclaimed food-drug interactions as well as the study design and analysis chapters remain definitive references. The newly written drug-cytokine interaction highlights the need for our improved understanding of the complex interrelationship of acute infection, inflammation, and the risk of drug interactions. Informative tables on specific drug-drug interactions are provided throughout the chapters as a quick clinical resource.

The Third Edition of Drug Interactions in Infectious Diseases is a distillation of relevant drug interactions associated with antimicrobials, infection, and inflammation. This concise review of the mechanisms and strategies to manage drug interactions should be valuable to all health care practitioners.

From the contents

Cicatricial Alopecia
An Approach to Diagnosis and Management

V. Price, University of California, San Francisco, CA, USA; P. Mirmirani, The Permanente Medical Group, Vallejo, CA, USA (Eds.)

Features
► The first book devoted to the diagnosis and management of these disorders
► Practical, to-the-point, and profusely illustrated
► Chapters feature clinical photographs, a clinical scenario, diagnostic clues, general discussion, pearls, and suggested readings
► Includes a guide to drugs and their side-effects and common challenges in clinical management
► Dermatopathology underscores the pivotal role of biopsy in diagnosis and treatment
► Patient narratives provide special insight into living with the disease

This is the first and only book on the diagnosis and treatment of cicatricial alopecia, written by leading experts in the field. This highly illustrated and practical text helps residents and practicing dermatologists to accurately diagnose and treat the scarring alopecias.

From the contents
Available

2nd Edition

Principles and Practice of Geriatric Surgery

R. A. Rosenthal, Yale University, New Haven, CT, USA; M. E. Zenilman, SUNY Downstate Medical Center, Brooklyn, NY, USA; M. R. Katlic, Wyoming Valley Healthcare System, Wilkes-Barre, PA, USA (Eds.)

Features

- Only comprehensive, evidence-based textbook that covers special issues facing surgeons whose patients are elderly
- Provides a complete overview of geriatric care written by leaders in the field
- Presents an updated edition which improves upon the first with new procedures, methods, and information required to keep pace with this rapidly evolving field

More than 380 illustrations make this book the definitive reference on the art and science of surgical treatment in the elderly - a must have for every surgeon and surgeon-in-training.

From the contents

**Available**

*Congenital Thoracic Wall Deformities*

Diagnosis, Therapy and Current Developments

A. H. Schwabegger, Medizinische Universität Innsbruck, Austria (Ed.)

**Features**

- Offers a compact survey of diagnosis, treatment and future options of congenital thoracic anomalies
- Combines experience of international experts
- Written with a multidisciplinary approach

These congenital deformities, funnel or keel chest deformities, as well as Poland syndromes, affect a small group of patients who suffer from aesthetic rather than functional impairment. The wide variety of diagnoses and recommended therapies, mostly surgical procedures, can be very confusing for patients, their parents, physicians and surgeons. In recent years several techniques have been refined and developed to deal with these complex problems, and surgeons with different specialties have been operating on these deformities, mostly as lonely experts in their respective fields.

This book should not be seen as an operation atlas but more as a compact survey of a small group of medical conditions and the need for flexible options for an individual therapeutic approach, based on the combined experience of different international specialists. Thus the book is designed for obstetricians, pediatricians, physicians and surgical specialists alike.
Principles and Practice of Anesthesia for Thoracic Surgery

P. Slinger, MD, FRCPC, University of Toronto, ON, Canada (Ed.)

Features
- Covers recent advances in anesthesia for thoracic surgery
- New topics include advances in management of one-lung anesthesia, lung isolation, lung transplantation, pharmacologic therapy of pulmonary hypertension
- Features sections specifically designed to interest residents: clinical case discussions at the end of each clinical chapter and practical tables describe detailed anesthetic management

Principles and Practice of Anesthesia for Thoracic Surgery will serve as an updated comprehensive review covering not only the recent advances, but also topics that haven’t been covered in previously published texts: extracorporeal ventilatory support, new advances in chest imaging modalities, lung isolation with a difficult airway, pulmonary thromboendarterectomy, and chronic post-thoracotomy pain. Additionally, the book features clinical case discussions at the end of each clinical chapter as well as tables comprising detailed anesthetic management.

From the contents
Dermal Tumors: The Basics

B. R. Smoller, K. M. Hiatt, University of Arkansas for Medical Sciences, Little Rock, Arkansas, USA

Features
► Illustrated in full-color
► Bulleted text in organized outlines are user-friendly
► One of five basic dermatopathology volumes by the author created in a similar and practical format

Dermal Tumors: The Basics will serve as an effective and efficient handbook for the student of dermatopathology, and as a practical bench reference for the practicing diagnostician who desires rapid access to criteria that are useful in differentiating histologically similar entities. The reader will be able to focus upon a single histologic observation, i.e., inflammatory conditions without epidermal changes, and use this as a starting point from which to build a differential diagnosis based upon pattern recognition. As each entity is addressed, there will be a concise discussion of the basic clinical findings and epidemiologic associations. This will be followed by a histologic description, highlighting areas that serve to discriminate between the entity under discussion and similar ones. Any immunologic studies that might augment the diagnostic sensitivity or specificity will be discussed.

The chapters are thematically based and consist of essential bullet points arranged in organized outlines allowing for easy access and direct comparison between entities. The salient histologic features are depicted with abundant high quality, full-color photomicrographs placed immediately adjacent to the appropriate histologic bullet points. This volume will serve as an effective and efficient handbook for the student of dermatopathology, and as a practical bench reference for the practicing diagnostician who desires rapid access to criteria that are useful in differentiating histologically similar entities. The elaborate pictorial documentation will also enable the book to serve as an atlas of the commonest dermatologic disorders.

From the contents
Forthcoming
Due September 2011

Diagnostic Pathology of Ovarian Tumors
R. A. Soslow, Memorial Sloan Kettering Cancer Center, New York USA; C. Tornos, Stony Brook University Medical Center, Stony Brook NY, USA (Eds.)

Features
- Includes introductory chapters and clinical correlations
- Focus on ovarian neoplasia
- Chapters written by practicing gynecologists
- Covers the intraoperative diagnosis of ovarian tumors

Diagnostic Pathology of Ovarian Tumors offers a focus on the pathology of ovarian neoplasia with detailed clinically relevant information for practicing pathologists not found in other more general volumes of gynecologic pathology. This important work focuses almost entirely on strategies for accurate diagnosis and histologic subclassification, and the clinical correlates of these diagnosis. It provides evolving guidelines for detecting early ovarian cancer in prophylactic specimens; cutting-edge information on enhancing the reproducible and clinically meaningful subclassification of ovarian carcinoma as well as new proposals for ovarian carcinoma grading. Richly illustrated, containing abundant tables and figures as well as bulleted points of information, Diagnostic Pathology of Ovarian Tumors is the first text offering chapters written by practicing gynecologists on how clinical data can enhance pathologic diagnostic accuracy, how pathologists can efficiently convey their diagnostic opinions to gynecologists, and the way in which a given diagnosis triggers a cascade of clinical testing and therapy. Diagnostic Pathology of Ovarian Tumors will be of great value to practicing surgical pathologists, including gynecologic pathologists, pathology residents in training, as well as gynecologic and medical oncologists worldwide.

From the contents
Crisis Management in Acute Care Settings
Human Factors, Team Psychology, and Patient Safety in a High Stakes Environment

M. St.Pierre, University of Erlangen, Erlangen, Germany; G. Hofinger, Remseck, Germany; C. Buerschaper, Berlin, Germany; R. Simon, Harvard Medical School, Cambridge, MA, USA

Features
- A comprehensive outline of issues relevant to error prevention and safe practice in the acute and emergency health care setting
- All chapters enlarged and updated since the first edition
- Includes case reports and descriptions of proven strategies that help to ground the psychological theory in daily practice
- Blends the strengths of clinicians and psychologists into a readily accessible text that will assist both physicians and non-physicians

Critical situations in acute and emergency care are one of the great clinical challenges because of the uncertainty, high stakes, time pressure, and stress that are involved. This book provides a comprehensive outline of all the human factors issues relevant to patient safety during acute care. Following an initial section discussing the basic principles of human behavior and decision making, the various influences on safe patient care are discussed in depth. These are divided into three interacting groups: individual factors, team factors, and organizational factors. Relevant psychological theories are carefully examined, and case studies and descriptions of proven strategies help to ground these theories in daily practice. This newly revised edition, in which each chapter has been enlarged and updated, will help both physicians and non-physicians to better understand the principles of human behavior and decision making in critical situations and thus to provide safer treatment.

From the contents
3rd Edition

Clinical Forensic Medicine
A Physician’s Guide

M. M. Stark, St. George’s University of London, London, UK (Ed.)

Features

► Cutting edge research
► Contributions by leading scientists in the field
► High quality images

The publication of this third edition of the definitive text on clinical forensic medicine comes at an exciting time for a subject now gaining recognition as a speciality in the medical establishment. This growing acknowledgement reflects the fact that increasing numbers of health professionals are becoming engaged in general forensic services. Nurses and paramedics are more involved than ever in custody care, while nurses themselves are conducting more examinations in cases involving alleged sexual offences. Thus it is vital that those caring for this vulnerable group of patients (whether detainees or complainants) have the tools to master this specialist set of skills. All the chapters in this new edition have been fully updated, with some undergoing extensive revision. Recent developments in child protection protocols have prompted a major rewrite of the chapter on non-accidental injury, and the text now includes a specific chapter on the use of the TASER. Other aspects of restraint are now dealt with separately. The material on care of detainees and fitness for interview has been split into individual chapters to allow a more comprehensive discussion of the issues. In addition, new authors have joined the team of contributors, facilitating a wider range of international perspectives. From its chapters on the history and core principles of clinical forensic medicine, right up to the text’s discussion of substance misuse and deaths in custody, this volume remains the gold standard source for health professionals whose working lives bring them into contact with those in the law enforcement arena.

From the contents
Forthcoming
Due September 2011

Cushing's Disease

B. Swearingen, Massachusetts General Hospital, Boston, MA, USA; B. M. Biller, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA (Eds.)

Features

► Provide material that is clinically practical.
► Informed by the most recent scientific advances.
► Written by an international group of experts in the field.

In Cushing's Disease, leading authorities in the field offer a thorough review of the pathogenesis, diagnostic algorithm and treatment options for this complex disease. Beginning with a fascinating history of Cushing’s disease that outlines its historical significance to both endocrinology and neurosurgery, the book goes on to cover the full range of important issues, including the molecular pathogenesis of Cushing’s, anatomic pathology, the diagnosis of Cushing’s syndrome, the differential of pseudo-Cushing’s syndromes, hypercortisolemia, surgical removal of the corticotroph adenoma, post-operative management and assessment of remission, radiotherapeutic options, and the exciting developments in medical therapy. In addition, the book also addresses Cushing’s disease in the pediatric population, given that its clinical manifestations and impact on growth can be severe; silent corticotroph adenomas as a distinct clinical entity; diagnosis and management of Cushing’s disease during pregnancy, bilateral adrenalectomy, and, finally, the long-term psychological manifestations of hypercortisolemia. Comprehensive and an invaluable addition to the literature, Cushing’s Disease is an essential reference for enhancing diagnosis and treatment of this debilitating disorder.

From the contents

History.- Molecular Biology of Cushing’s.- Pathology.- Clinical Diagnosis of Cushing’s Syndrome (including Hormone Testing).- Clinical Applications of Statistical Analysis of Test Results.- Pseudo–Cushing’s Syndromes.- Cyclical Cushing’s.- Differential Dx of Cushing’s Disease: Locating the Source of Hormone Excess.- Pituitary Imaging.- Surgical Treatment.- Postop Management and Assessment of the Cure.- Radiation Treatment.- Medical Management (including Tumor Suppressive Agents, Dopamine Agonists, etc).- Treatment of Recurrent Disease.- Pediatric Cushing’s.- Silent Corticotroph Adenomas.- Cushing’s and Pregnancy.- Nelson’s Syndrome.- Index.
CT of the Acute Abdomen

P. Taourel, Hôpital Lapeyronie, Montpellier, France (Ed.)

Features

► Provides an in-depth and comprehensive account of the use of CT in patients with acute abdomen
► Features a particular focus on recent significant developments in CT relevant to imaging of the acute abdomen, such as multislice CT and multiplanar reconstructions
► Takes full account of new trends in diagnosis and management and examines the role of CT in this context
► Clearly documents pitfalls and differential diagnoses

CT of the Acute Abdomen provides a comprehensive account of the use of CT in patients with acute abdomen. Recent important developments in CT, including multislice CT and multiplanar reconstructions, receive particular attention. CT features are clearly illustrated, and pitfalls and differential diagnoses are discussed. The first section of the book presents epidemiological and clinical data in acute abdomen. The second and third sections document the key CT findings and their significance and discuss the technological background. The fourth and fifth sections, which form the main body of the book, examine in detail the various clinical applications of CT in nontraumatic and traumatic acute abdomen. This book will serve as an ideal guide to the performance and interpretation of CT in the setting of the acute abdomen; it will be of value to all general and gastrointestinal radiologists, as well as emergency room physicians and gastrointestinal surgeons.

From the contents

The Cleveland Clinic Manual of Headache Therapy

S. J. Tepper, D. E. Tepper, Cleveland Clinic, OH, USA (Eds.)

Features

- Hands-on, practical guide to diagnosis, work-up, and treatment of common headache disorders
- Written by Cleveland Clinic Headache Center care providers
- Evidence-based, providing a wealth of available data, and offering guidance on the most appropriate treatments

The Cleveland Clinic Manual of Headache Therapy is a hands-on, practical guide to diagnosis, work-up, and treatment of common headache disorders. Each chapter is written by a Cleveland Clinic Headache Center care provider. The book uses an evidence-based approach to sift through the wealth of available data and identify the most appropriate treatments. This manual is aimed at practicing neurologists and pain specialists, fellows and residents, and also primary care physicians. The Cleveland Clinic Manual is the most trusted source on this ever expanding and developing topic.

From the contents

2nd Edition

Color Atlas of Chemical Peels

A. Tosti, University of Bologna, Bologna, Italy; P. E. Grimes, Vitiligo and Pigmentation Institute, LA, USA; M. P. De Padova, Università Bologna Policlinico, Bologna, Italy (Eds.)

Features
► Fully updated since the first edition
► Presents the different peeling techniques with the aid of informative illustrations
► Describes the treatment options appropriate for a variety of diseases and conditions, such as acne, rosacea, melasma, photoaging, postinflammatory hyperpigmentation, actinic keratosis, and dark skin
► An ideal reference tool for all who perform, or wish to start performing, chemical peels

Chemical peeling is a well known method attempting to restore a more youthful appearance and improving dermatologic defects. Over the last years this technique has been marked by constant innovation. This book is the first atlas on chemical peels, representing the state of the art in this field. In the first part the peeling techniques are shown in a step-by-step manner with an exhaustive text supporting the illustrations; in the second part different diseases are discussed in their pathogenesis and treatment options. Furthermore, each author provides his/her personal experience and treatment approach with different peeling techniques in acne, rosacea, melasma, photoaging, postinflammatory hyperpigmentations and dark skin.

From the contents
Types of Chemical Peels: Advantages/Disadvantages, an Illustrated Algorythms.- Modalities of Application: Glycolic Acid, Salicylic Acid, Pyruvic Acid, Trichloracetic Acid, Phenol, Jessner’s Solution.- Combinations Peels: Jessner’s Solution + TCA, Salicylic Acid + TCA.- Home Peeling: a Combined Technique.- Combination of Peelings and Mesolift.- Combination of TCA and Microdermoabrasion.- Combination of TCA and Needling.- How to Choose the Best Peeling for the Patient: Acne, Photoaging, Melasma, Senile Lentigines, Postinflammatoty Hyperpigmentation, Scarring, Rosacea, Actinic Keratosis, Dark Skin, Hand and Neck Rejuvenation.- Side Effects and Management.- Management of the Patient.
Forensic Pathology Reviews

E. E. Turk, Asklepios Klinik, Hamburg, Germany (Ed.)

Features
► Comprehensive and current
► The volume covers fresh research
► Gives forensic experts across the world a fully up-to-date guide to contemporary procedures and theory in forensic science and medicine

Fresh research has opened up new vistas in forensic pathology that are allowing for closer national and international cooperation between pathologists and scientists in a range of medical and scientific disciplines. At the same time, autopsy and laboratory techniques are undergoing rapid evolution, with new procedures coming on stream while existing processes yield additional—and more accurate—results. This sixth volume of reviews in forensic pathology provides professionals working in the field with cutting-edge material on the latest key advances in the fields of traumatic death, sudden natural death and death time estimation. Now with numerous color illustrations, the book gives forensic experts across the world a fully up-to-date guide to contemporary procedures and theory in forensic science and medicine. The chapters cover an exhaustive range of aspects in the discipline, from the analysis of sudden natural deaths in infancy and childhood to the cardiac proteomics approach in the study of cases involving sudden cardiac death. Other specialist chapters deal with the forensic investigation of deaths in aviation and as a result of accidents involving all-terrain vehicles. The volume covers fresh research in the use of protein markers for the estimation of post-mortem intervals, and features a chapter telling the story of the medico-legal investigation into the deaths resulting from the 9-11 terrorist attacks on the World Trade Center. Comprehensive and current, this fresh volume of reviews is an essential resource for professionals who need to stay ahead of the game in a fast-moving and exciting field of scientific endeavor.

From the contents
Perioperative Two-Dimensional Transesophageal Echocardiography
A Practical Handbook
A. Vegas, MD, FRCPC, FASE

Features
► More than 450 full-color, high quality clinical images and illustrations
► Synopsis of cardiac pathology commonly encountered in cardiac surgery patients
► Convenient spiral binding
► On-the-spot reference for echocardiographers with a wide range of experience, from novice to expert

Transesophageal echocardiography (TEE) is a valuable diagnostic modality now routinely used during cardiac surgery and in the intensive care unit. Increasingly, anesthesiologists trained in TEE provide the service in both settings where they face the challenge of integrating numerous current TEE guidelines into day-to-day practice. Perioperative Two-Dimensional Transesophageal Echocardiography: A Practical Handbook has been designed to be a concise, portable guide for using TEE to recognize cardiac pathology during the perioperative period.

This compact guide has a diverse appeal for anesthesiologists, cardiac surgeons, and cardiologists desiring comprehensive up-to-date echocardiographic information at their fingertips.

From the contents
2nd Edition

Raising of Microvascular Flaps
A Systematic Approach

K. Wolff, F. Hölzle, Clinic and Policlinic for Oro-Maxillofacial Surgery, Munich, Germany

Features

► Systematic approach to the techniques of microsurgical tissue transfer
► Brilliant photographs and artwork clearly showing all the surgical steps and the underlying anatomy
► Covers all commonly used soft-tissue and bone flaps including a new series of perforator flaps
► Step-by-step instructions given in videos on a DVD

Raising of Microvascular Flaps provides all those dealing with microsurgical tissue transfer, i.e. plastic surgeons, ENT surgeons, trauma surgeons, and oral and maxillofacial surgeons with all they need to know in their daily practice. A microvascular transplant or flap, involves transplanting nonessential donor tissue from one part of the body to another to restore form or function. The systematic approach of this operative manual is based on photographs of perfect quality showing cadaver preparations alongside explanatory color drawings. A clear didactic structure and perfect artwork supply the surgeon with invaluable guidelines for his daily work.

From the contents

Frozen Section Library: Liver, Extrahepatic Biliary Tree and Gallbladder

R. K. Yantiss, Weill Medical College of Cornell University, New York, NY USA (Ed.)

Features

► Convenient reference for intraoperative consultation
► Addresses commonly encountered challenges
► Provides gross and microscopic images

The Frozen Section Library series provides concise, user-friendly, site specific handbooks that are well illustrated and highlight the pitfalls, artifacts and differential diagnosis issues that arise in the hurried frozen section scenario. Frozen Section Library: Liver, Extrahepatic Biliary Tree and Gallbladder provides a convenient reference for use during intraoperative consultation. The volume addresses commonly encountered challenges, such as the diagnosis of primary and secondary hepatic neoplasms and assessment of gross abnormalities of the gallbladder. The assessment of frozen section biopsies for liver transplantation, a challenging and increasingly encountered situation, is detailed in the form of histologic criteria that should be reported. Emphasis is placed on the differential diagnoses of gross and microscopic findings with attention to potential pitfalls and artifacts encountered on frozen section. Gross and microscopic images are provided as well as user-friendly tables for quick reference.

From the contents

Neuroendocrine Tumors

J. C. Yao, The University of Texas, M.D. Anderson Cancer Center, Houston, TX, USA; P. M. Hoff, Instituto do Cancer do Estado de São Paulo, Faculdade de Medicina da Universidade de São Paulo, and Hospital Sírio Libanes, São Paulo, Brazil; A. O. Hoff, Endocrine Neoplasia Unit, Instituto do Cancer do Estado de São Paulo, Faculdade de Medicina da Universidade de São Paulo, and Department of Endocrinology, Fleury Group, São Paulo, Brazil (Eds.)

Features

► Emphasizes emerging therapeutic options
► Discusses the practical applications of novel molecular targeted agents
► Conveys recent advances in the understanding of molecular pathogenesis
► Covers all major types of neuroendocrine tumors

New research has shown that neuroendocrine tumors are more common than previously thought. Progress in our understanding of the molecular pathogenesis of these not-so-rare cancers has resulted in renewed interest in developing innovative therapeutic options. In particular, novel molecular targeted agents have been shown to have significant anti-tumor activity, and integration of these therapies has led to critical advances in management. In this volume, an outstanding group of the world’s leaders in the field have assembled to convey their knowledge of the epidemiology, biology, and management of all the major types of neuroendocrine tumors. The book takes a multi-modality approach to understanding disease processes and therapeutics, including chapters on medical and surgical treatment as well as a chapter devoted to imaging. Throughout, the authors emphasize recent advances in our understanding of molecular biology and the subsequent emerging therapeutic options.

From the contents
Global Epidemiology of Neuroendocrine Tumors.- Pathology.- Multiple Endocrine Neoplasia.- Other Genetic Syndromes.- Imaging of Neuroendocrine Tumors.- Surgical Management of Sporadic Gastrointestinal Neuroendocrine Tumors.- Management of Neuroendocrine Tumor Hormonal Syndromes.- Management of Metastatic Carcinoid Tumors.- Medical Management of Islet Cell Carcinoma.- Poorly Differentiated Neuroendocrine Tumors.- Hereditary and Sporadic Medullary Thyroid Carcinoma.- Adrenocortical Carcinoma.- Pheochromocytoma.- Merkel cell carcinomas.
Available

Textbook of Pulmonary Vascular Disease

J. X. Yuan, University of Illinois at Chicago, Chicago, IL, USA; J. G. Garcia, University of Illinois, Chicago, IL, USA; C. A. Hales, Massachusetts General Hospital, Boston, MA, USA; S. Rich, S. L. Archer, University of Chicago, IL, USA; J. B. West, University of California San Diego, La Jolla, CA, USA (Eds.)

Features

► Comprehensive reference
► Clarifies regulation of normal pulmonary vasculature
► Clarifies pathogenic mechanisms of PVDs
► Shows advanced research techniques and technology
► Includes conventional and molecular approaches for diagnosis and treatment
► Includes surgical approaches for treatment of PVDs

Textbook of Pulmonary Vascular Diseases combines basic scientific knowledge on the pulmonary circulatory system at levels of the molecule, cell, tissue, and organ with clinical diagnosis and treatment of pulmonary vascular diseases. State-of-the-art techniques and their potential applications in research, diagnosis, and treatment of pulmonary vascular diseases are also covered.

From the contents

Book Highlights from Springer

Dear reader,

Welcome to the New Year 2011 and new Springer books in the first quarter. This catalog will help you to find the best books for study, education, research and profession. There is no overlap with the previous quarter's Preview catalogs.

The titles presented here are the highlights of January to March 2011. The best references for libraries, the most important monographs for researchers and the most interesting reads for any specialist in the field. They represent the top sellers amongst the 400+ titles published every month by Springer, especially selected for this catalog.

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