**Functional Respiratory Disorders**

*When Respiratory Symptoms Do Not Respond to Pulmonary Treatment*

**Features**
- Teaches clinicians to empower themselves by learning how to incorporate various therapies for functional disorders into their practice, including biofeedback, breathing techniques, basic cognitive behavioral therapy techniques, and hypnosis.
- Provides practical strategies for obtaining training in these modalities are provided in the appendix.
- Written by an international group of authors.

**Contents**

**Fields of interests**
Pneumology/Respiratory System; Internal Medicine; Primary Care Medicine.

**Target groups**
Professional/practitioner.

**Product category**
Contributed volume.

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**Movement Disorders**

*A Video Atlas*

Movement Disorders: A Video Atlas is a practical and concise title offering an introduction to the field of movement disorders, which is expanding rapidly with the involvement of various disciplines and specialties. The unique feature of the book is the accompanying online video content, comprising common cases in each category of movement disorders. The video clips come from Dr. Tarsy’s personal video collection at Beth Israel Deaconess Medical Center and Dr. Bhidayasiri’s personal collection at Chulalongkorn University and UCLA. They can be found at www.springerimages.com/Tarsy. Each case includes expert narration from Dr. Tarsy. Rather than focusing on rare cases, the authors emphasize typical cases, with good history and physical signs. Unique, easy to read, with highly instructive supporting video content, Movement Disorders: A Video Atlas is an indispensable reference for all clinicians interested in the fascinating field of movement disorders.

**Features**
- Practical and concise title offering targeted introduction to the field of movement disorders.
- Includes wealth of supporting video content to enhance educational value.
- Authored by experts in the field.

**Contents**

**Fields of interests**
Neurology; Neurosurgery; Internal Medicine.

**Target groups**
Professional/practitioner.

**Product category**
Professional book.

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**Management of Prostate Cancer**

*A Multidisciplinary Approach*

This book provides an exhaustive review of the current state of the art in the management of prostate cancer, from screening to treatment. A particular feature is the emphasis placed on the value of a multidisciplinary approach. The opening chapters address basic aspects including epidemiology, biology, and chemoprevention.

**Features**
- Includes up-to-date data from clinical trials.
- Multidisciplinary approach.
- Edited by two experts with worldwide reputations who have coordinated phase III EORTC trials.

**Contents**

**Fields of interests**
Oncology; Radiotherapy; Epidemiology.

**Target groups**
Professional/practitioner.

**Product category**
Professional book.
Surgical Guide to Circumcision

Contents

Fields of interests
Pediatric Surgery; Urology/Andrology; Pediatrics

Target groups
Professional/practitioner

Product category
Professional book

Radiology of the Post Surgical Abdomen

Radiology of the Post Surgical Abdomen provides a comprehensive overview of all abdominal operations involving the gastrointestinal tract, pancreas, hepatobiliary and genitourinary systems. Each chapter is fully illustrated with artists' drawings and radiological images of normal post operative anatomy. The complications associated with each procedure are described alongside imaging examples. Written by experts in the field, Radiology of the Post Surgical Abdomen provides the reader with key teaching points emphasising differentiation between normal post-operative anatomy and complications.

Features
- Illustrated with artist line drawings
- Extensive library of high resolution TIFF images of post-operative anatomy and complications
- All images have arrows delineating normal anatomy and features of complications
- Written by experts with an excellent national and international reputation in gastrointestinal and hepatobiliary radiology and surgery

Contents
Introduction to the Post Surgical Abdomen.- The Oesophagus.- The Stomach and Duodenum.- The Pancreas.- The Biliary Tree.- The Liver.- The Small Bowel.- The Colon.- Genitourinary System.

Fields of interests
Imaging / Radiology; Diagnostic Radiology; Abdominal Surgery

Target groups
Professional/practitioner

Product category
Professional book

Molecular Pathology of Lung Cancer

Features
- Bridges the gap between the molecular specialist and the clinical practitioner
- Provides the latest information and current insights
- Comprehensively covers the new molecular pathology of lung cancer

Contents
Approach to Personalized Care of the Lung Cancer Patient.- Etiology of Lung Cancer.- Genetic Susceptibility to Lung Cancer.- Lung Cancer Stem Cells.- The Classification of Pre-Invasive Lesions.- Molecular Pathology of Precursor and Pre-Invasive Lesions.- Revised Classification for Adenocarcinoma.- Molecular Basis for the Current Lung Cancer Classification.- Molecular Diagnosis of Lung Cancer.- Molecular Targeted Therapy of Lung Cancer.- Molecular Prognostic Markers of Lung Cancer.- New Techniques for Optical and Molecular Visualization of Lung Cancer.- Adenocarcinoma.- Squamous Cell Carcinoma.- Molecular Pathology of Large Cell Carcinoma.- Molecular Pathology of Small Cell Carcinomas.- Molecular Biopsy of Neuroendocrine Carcinomas Other Than Small Cell Carcinoma.- Molecular Pathology of Uncommon Carcinomas.- Biology of Lung Cancer Metastases.

Fields of interests
Pathology; Oncology; Thoracic Surgery

Target groups
Professional/practitioner

Product category
Contributed volume
Neurorehabilitation Technology

Contents

Fields of interests
- Neurology - Rehabilitation Medicine - Physical Therapy

Target groups
- Professional/practitioner

Product category
- Contributed volume

Optical Coherence Tomography

Technology and Applications

Contents

Fields of interests
- Imaging - Radiology - Ophthalmology - Optics - Optoelectronics - Plasmonics and Optical Devices

Target groups
- Research

Product category
- Monograph

Due March 2012
2008. XXX, 1346 p. 758 illus., 287 in color. (Biological and Medical Physics, Biomedical Engineering) Hardcover
- $279.00
ISBN 978-3-642-27643-9

Due April 2012
2012. XXI, 195 p. 19 illus., 10 in color. Hardcover
- $139.00
ISBN 978-3-642-27599-7
Minimal Residual Disease and Circulating Tumor Cells in Breast Cancer

Contents
Minimal residual disease and circulating tumor cells in breast cancer: Open questions for research. - Minimal residual disease and breast cancer metastasis. - Self-seeding in cancer. - Microenvironments dictating tumor cell dormancy. - Technologies for circulating tumor cell (CTC) and disseminated tumor cell (DTC) detection and characterization. - Immunomagnetic separation technologies. - Microfluidic technologies for the isolation of CTCs. - EPISPOT assay: Detection of viable disseminating tumor cells in solid tumor patients. - Advances in optical technologies for rare cell detection and characterization. - Size-based enrichment technologies for circulating tumor cell (CTC) detection and characterization. - Emerging technologies for CTC detection based on depletion of normal cells. - Molecular assays for the detection and characterization of CTCs. - Multiplex molecular analysis of CTCs. - Other blood-based biomarkers. - Circulating DNA and next generation sequencing. - Circulating microRNAs as non-invasive biomarkers in breast cancer. - Circulating endothelial cells and circulating endothelial progenitors. - Disseminated tumor cells (DTCs) and circulating tumor cells (CTCs) in breast cancer clinical research and practice. - Bone marrow DTCs. - CTCs in primary breast cancer. - CTCs in early breast cancer. - CTCs in metastatic breast cancer. - HER2-positive DTCs/CTCs in breast cancer. - DTCs and CTCs in breast cancer – 5 decades later. - Drug and circulating tumor cell co-development. [...]
**Muscles, Nerves and Pain**

*W. A. Nix, Johannes Gutenberg-University, Mainz, Germany*

**A Guide to Diagnosis, Pain Concepts and Therapy**

Many patients suffer from problems in their muscles or nerves in combination with pain. This book is about the interplay of these problems. Pain is the subjective experience of a psycho-physical phenomenon arising from a defined area in the body. It is a cry for help and challenges the physician to ask the right questions and to carry out the right examinations. If they succeed in doing so, the patient’s signs and symptoms will be translated into the present knowledge of pain concepts to initiate appropriate therapy. With this goal in mind, this book summarizes the latest scientific information on pain states and their mechanisms. It provides a deeper understanding of the different pain conditions and allows physicians to form strategies for a mechanism-based pain therapy. When puzzling symptoms of sensory, motor and autonomic deficits are evident, an examination has to be performed systematically in order to reach the correct diagnosis. This calls for suitable anatomical knowledge. Depending on where a lesion exists within a peripheral nerve, the root or the plexus, typical patterns of paralysis can be detected.

**Features**

- Written by an expert in this field
- Numerous color images
- Comprehensive in scope

**Contents**

2. Examination process.
3. Electrophysiology.
4. Radicular lesions.
5. Lesions of single nerves.
6. Pain from nerve, muscle, and tissue.
7. Polyneuropathy.
8. General lesions of single nerves.

**Fields of interests**

Neurology; Pain Medicine

**Target groups**

Professional/practitioner

**Product category**

Monograph

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**Whiplash Injury**

*W. A. Nix, Johannes Gutenberg-University, Mainz, Germany*

**New Approaches of Functional Neuroimaging**

In the past two decades much has been published on whiplash injury, yet both the confusion regarding the condition and the medicolegal discussion surrounding it have increased. In this scenario, a guide to recent and current international research in the field is more necessary than ever.

**Features**

- Presents the latest insights offered by functional imaging into whiplash injury
- Covers all aspects, including imaging tools and methods of image analysis
- Broad appeal for treating physicians, patients, and lawyers

**Contents**

- General aspects.
- Incidence.
- Historical aspects.
- Mechanics.
- Diagnostic procedure in whiplash injury.
- Part 2: Nuclear medicine tools.
- Part 3: Image analysis.
- Background.
- Visual interpretation.
- Region-of-interest technique.
- Statistical parametric mapping (SPM).
- Image fusion.
- Network analysis.
- Control group.
- Part 4: Current research data.
- Mild traumatic brain injury.
- Whiplash injury.
- Differential diagnostic list.
- Whiplash trauma and the risk of Alzheimer’s disease.
- Part 5: Conclusion.
- General aspects.
- Clinical aspects.
- References.
- Legends.

**Fields of interests**

Nuclear Medicine; Imaging; Radiology; Neuro-radiology

**Target groups**

Professional/practitioner

**Product category**

Monograph

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**Simulation Training in Laparoscopy and Robotic Surgery**

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

The field of minimally invasive surgery (MIS) has now taken centre stage in modern clinical practice. With ever changing technologies in the field of MIS, such as robotics, there is now the need to train the surgeon to the next degree.

**Features**

- Simulation Training in Laparoscopy and Robotic Surgery is a compact text containing full color illustrations for ease of use
- Written by an international team of experts
- Simulation Training in Laparoscopy and Robotic Surgery gives a true insight into the latest educational and learning techniques for new technologies in surgery

**Contents**

Lessons Learned from the Aviation Industry: Surgical Checklists.
- Human Factors, Non-Technical Skills, and Surgical Training.
- Current State of Laparoscopic and Robotic Surgery.
- Simulation and Training in Minimally Invasive Surgery.
- Value of Virtual Reality in Medical Education.
- The MIMIC Virtual Reality Trainer: Stepping into Three-Dimensional, Binocular, Robotic Simulation.
- Lessons Learnt from the Military Surgeons Using Simulation in Trauma Surgery.
- Clinical and Educational Benefits of Surgical Telementoring.
- Portable Learning and Multimedia in Surgical Training.

**Fields of interests**

Minimally Invasive Surgery; Urology/Andrology

**Target groups**

Professional/practitioner

**Product category**

Professional book
Applied Physiology in Intensive Care Medicine 1

Physiological Notes - Technical Notes - Seminal Studies in Intensive Care

The two previous editions of Applied Physiology in Intensive Care Medicine proved extremely successful, and the book has now been revised and split into two volumes to enhance ease of use. This first volume comprises three elements — “physiological notes,” “technical notes,” and seminal studies. The physiological notes concisely and clearly capture the essence of the physiological perspectives underpinning our understanding of disease and response to therapy. The technical notes then succinctly explain some of the basics of “how to” in this technology-centered field of critical care medicine.

Features
► Up-to-date compendium of practical bedside knowledge essential to the effective delivery of acute care medicine ► Ideal reference source on key issues regularly confronted by clinicians ► Comprises concise physiological and technical notes, more detailed reviews, and a series of seminal studies ► Written by renowned experts in the field

Contents

Fields of interests
Intensive / Critical Care Medicine; Cardiology; Internal Medicine

Target groups
Professional/practitioner

Product category
Professional book

Due March 2012
3rd ed. 2012. VI, 482 p. 65 illus., 20 in color. Hardcover ► $199.00 ISBN 978-3-642-28269-0

Applied Physiology in Intensive Care Medicine 2

Physiological Reviews and Editorials

The two previous editions of Applied Physiology in Intensive Care Medicine proved extremely successful, and the book has now been revised and split into two volumes to enhance ease of use. In this second volume some of the most renowned experts in the field offer detailed reviews on measurement techniques and physiological processes of crucial importance in intensive care medicine. Throughout, a key aim is to help overcome the fundamental unevenness in clinicians’ understanding of applied physiology, which can lead to suboptimal treatment decisions. Applied Physiology in Intensive Care has been written by some of the most renowned experts in the field and provides an up-to-date compendium of practical bedside knowledge essential to the effective delivery of acute care medicine.

Features
► Up-to-date compendium of practical bedside knowledge essential to the effective delivery of acute care medicine ► Ideal reference source on key issues regularly confronted by clinicians ► Comprises concise physiological and technical notes, more detailed reviews, and a series of seminal studies ► Written by renowned experts in the field

Contents

Fields of interests
Intensive / Critical Care Medicine; Cardiology; Internal Medicine

Target groups
Professional/practitioner

Product category
Professional book

Due March 2012

Ventricular Geometry in Post-Myocardial Infarction Aneurysms

Implications for Surgical Ventricular Restoration

The topic of heart failure although extensively researched and reported, has several gray areas.

Features
► Clinical validation of a mathematical hypothesis, by the technique of EVLPP ► Clinical validation of a mathematical hypothesis, by the technique of EVLPP Clinical validation of a mathematical hypothesis for the existence of an extension of the Frank Starling mechanism in the failing heart ► Extensive video files of the surgical technique

Contents

Fields of interests
Cardiac Surgery; Cardiology; Medicine/Public Health, general

Target groups
Professional/practitioner

Product category
Monograph

Due May 2012
Echocardiography for Intensivists

This book contains all the information that readers will require in order to perform echocardiography and to interpret the findings correctly. After an introductory chapter on the essential physics of ultrasonography, standard echocardiographic examination via both the transthoracic and the transesophageal approach is described. In the third section, the functional anatomy of all normal and pathologic thoracic structures as observed on echocardiography is presented in detail. A wide range of basic and advanced applications of echocardiography in the emergency and intensive care setting are then described. A final supplementary section considers further applications of ultrasound in the intensive care unit.

Features

- Few books are written specifically for the intensivist
- Section D is highly original since it offers goal-directed and focus-oriented ICU echocardiography
- Numerous step-by-step algorithms help the reader with hands-on ICU applications

Contents

Section 1: Ultrasonography and use of the Echo Machine
Section 2: Standard Echocardiographic Examination
Section 3: Essential Functional Echo-anatomy
Section 4: Echocardiography in the Intensive Care Unit and Operating Room
Basic and Advanced Applications
Section 5: Ultrasonography in the Intensive Care Unit: Other Applications
Appendix: Formulae and Normal Values

Fields of interests

Intensive / Critical Care Medicine; Ultrasound; Cardiology

Target groups

Professional/practitioner

Product category

Professional book

Emergency Radiology of the Abdomen

Imaging Features and Differential Diagnosis for a Timely Management Approach

The term “acute abdomen” refers to a serious, often progressive clinical situation that calls for immediate diagnostic and therapeutic action. Today, diagnosis via imaging has basically replaced the physical examination in the emergency room and the Radiologist has become of primary importance in this setting.

Features

- The latest imaging protocols
- Recent advances in post-processing techniques
- Tricks and tips for fast and rapid reporting and diagnosis
- Easy-to-read tables
- More than 300 illustrations

Contents

Acute Abdomen: Clinical Context and Indications to Imaging
Acute Abdomen: Rational use of US, MDCT and MRI
Liver and Bile Ducts
Spleen
Pancreas
Kidney, Ureter, Adrenal Gland
Gastrointestinal Tract
Pelvis
Vascular Emergencies of the Retroperitoneum
MRI of the Acute Abdomen
Acute Abdomen in the pediatric population
The Role of Interventional Radiology

Fields of interests

Imaging / Radiology; Emergency Medicine; Surgery

Target groups

Professional/practitioner

Product category

Contributed volume

Management of Severe Traumatic Brain Injury

Evidence, Tricks, and Pitfalls

In order to reduce the number of deaths from severe head injuries, systematic management is essential. This book is a practical, comprehensive guide to the treatment of patients (both adults and children) with such injuries, from the time of initial contact through to the rehabilitation center. Sections are devoted to prehospital treatment, admission and diagnostics, acute management, and neurointensive care and rehabilitation. Evidence-based recommendations are presented for each diagnostic and therapeutic measure, and tips, tricks, and pitfalls are highlighted.

Features

- A practical, comprehensive guide to the treatment of patients with severe head injuries, from the time of initial contact through to the rehabilitation center
- Presents evidence-based recommendations for each diagnostic and therapeutic measure
- Highlights tips, tricks, and pitfalls
- Includes helpful flowcharts for use in daily routine

Contents

Prehospital treatment and initial contact
Admission and diagnostics
Acute management
Neurointensive care including neurorehabilitation
Additional aspects

Fields of interests

Intensive / Critical Care Medicine; Neurosurgery; Anesthesiology

Target groups

Professional/practitioner

Product category

Professional book
**Drug Abuse and Addiction in Medical Illness**

**Causes, Consequences and Treatment**

**Contents**
- Epidemiology and trends in drug abuse.
- The role of inhibitory control in drug abuse.
- Automatic and controlled processes in the pathway from drug abuse to addiction.
- Personality and Substance Misuse: Evidence for a Four-Factor Model of Vulnerability.
- Compulsive drug use and brain reward systems.
- Animal models in addiction research.
- Genetic contributions to individual differences in vulnerability to addiction and abilities to quit.
- Pharmacological treatment of drug abuse and addiction in medical illness.
- Alcohol.
- Nicotine.
- Cannabis.
- Cocaine.
- Ecstasy and LSD.
- Inhalants.
- Ketamine
- Prescription drug misuse across the lifespan: A developmental perspective.
- Anxiolytics and Sedatives.
- Opiates and other painkillers.
- Anabolic steroids.
- Anxiety Disorders.
- Depression and bipolar disorder.
- Autism and Alcoholism’s Genetic Overlap.
- Personality disorders.
- Schizophrenia and other psychotic disorders.
- Posttraumatic Stress Disorder (PTSD) and Trauma.
- Seizures and epilepsy.
- Addiction and Parkinson’s Disease.
- Sleep and Sleep Disorders.
- Dreams and Nightmares.
- Drug abuse in cardiovascular diseases.
- Liver Disease.
- Hyperkinetic movement disorders.
- Alcohol and cancer.
- Fetal Alcohol Spectrum Disorder.
- Drug abuse and addiction in elderly.
- Aggression and antisocial behavior.
- Suicidal Behavior in alcohol and drug abuse. [...]