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**Advanced Pancreaticobiliary Endoscopy**

This volume provides a comprehensive guide to advanced endoscopic procedures and techniques. Primarily focused on Endoscopic Retrograde Cholangiopancreatography (ERCP) and Endoscopic Ultrasound (EUS), the book also explores related topics such as cholangioscopy, pancreatoscopy, advanced pancreaticobiliary imaging, stenting, and endoscopic means to achieve pain control. The text also presents a plethora of tips and tricks on how to perform these procedures safely, emphasizes common mistakes and how to avoid them, and features high quality videos illustrating key procedural aspects for every chapter. Written by top experts in the field, Advanced Pancreaticobiliary Endoscopy is an...

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**Artificial Ventilation**

*A Basic Clinical Guide*

This book provides a basic clinical guide to the principles and practice of artificial ventilation, both manual and mechanical. It covers the development of artificial ventilation through the ages and the essential anatomy and physiology behind it. While there are many detailed texts available on mechanical ventilation, they are usually aimed at the hospital specialist and cover the many complex modes of ventilation used in the hospital setting. This book covers the basics of airway and ventilation management for non-specialists working in pre-hospital and emergency medicine. It fulfills the need for a resource that explains simply and clearly basic respiratory physiology, the...

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**Congenital Anomalies of the Kidney and Urinary Tract**

Clinical Implications in Children

This comprehensive, easy to read reference addresses the clinical implications of congenital anomalies of the kidney and urinary tract (CAKUT) in children. Authored by a panel of internationally recognized pediatric nephrologists and urologists, chapters discuss clinical presentation, workup, interpretation of imaging studies, genetics, prenatal diagnosis, prevention and treatment of various anomalies to help the practitioner understand, diagnose and manage CAKUT. Tables, figures, algorithms and an extensive appendix listing conditions and syndromes associated with CAKUT are featured to assist physicians in the differential diagnosis and workup of different conditions.

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Taking the readers through ward rounds, one question logically leads to another, simulating the bedside case discussions during pediatric patients in a unique Question-Answer format. This book on pediatric endocrinology covers interdisciplinary aspects of BPD, which is the most common chronic lung disease affecting infants. This one-stop resource is written by leading scientists and clinicians in the field, and chapters discuss the most recent developments in the basic scientific, translational, and clinical characteristics of the disease. Topics such as hyperoxia, pre- and post-natal inflammation, and genetics and biomarkers of BPD are included, as well as non-invasive ventilation techniques, nutrition, and radiology. [...]

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**Highly effective therapy with direct acting antivirals and associated viral resistance**

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### Bowel Dysfunction

A Comprehensive Guide for Healthcare Professionals

The editors aim to provide the definitive guide for healthcare professionals on functional disorders of the gastrointestinal tract and pelvic floor, and the treatments used within the current healthcare context. This book will help the reader to access and understand relevant information within a variety of clinical settings and scenarios. It will be relevant and useful to a variety of disciplines (e.g. Physicians, Nurses, Physiotherapists) who work within the field of gastrointestinal care. This book will be written by a team from the worlds’ most well established colorectal specialist hospital, presenting a definitive guide to care of the patient group.

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Sickle Cell Anemia
From Basic Science to Clinical Practice

Although sickle cell anemia was the first molecular disease to be identified, its complex and fascinating pathophysiology is still not fully understood. A single mutation in the beta-globin gene incurs numerous molecular and cellular mechanisms that contribute to the plethora of symptoms associated with the disease. Our knowledge regarding sickle cell disease mechanisms, while still not complete, has broadened considerably over the last decades. Sickle Cell Anemia: From Basic Science to Clinical Practice aims to provide an update on our current understanding of the disease's pathophysiology and use this information as a basis to discuss its manifestations in childhood and adulthood.[...]

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Liver Disease in Clinical Practice

This pocket guide covers the common manifestations of liver disease, how to treat them and when to refer patients on to specialist centers. The book outlines the common clinical liver diseases such as fatty liver disease and hepatitis, among others, and their current up to date management. Written by experts in the field and containing figures and tables, as well as case histories and questions, this is an enjoyable and reader-friendly book for the busy physician. With its authoritative, didactic style and short chapters, it covers the common presentations and complications of liver disease, and how to deal with them. Given the increasing prevalence of liver disease in the UK[...]

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Handbook of Insulin Therapies

A clinically-focused handbook that provides an overview of the different types of insulin, delivery methods, emerging treatments, and cutting-edge devices. The aim of the handbook is to discuss insulin treatment strategies that can improve glucose control, enhance patient adherence, and minimize adverse effects and disease-related complications. Concise scope and size is ideal for busy healthcare professionals that regularly encounter patients with diabetes and require an up-to-date snapshot of advances in diabetes care.

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Diabetes Mellitus in Developing Countries and Underserved Communities

Adopting a truly global perspective and a practical approach to diabetes—including pathophysiology, genetics, regional peculiarities, management, prevention and best practices—this book is an excellent resource for clinicians and policy-makers working with patients in more austere settings. The global prevalence of diabetes is estimated to increase from 422 million in 2014 to 592 million in 2035. Sadly, low- and middle-economy countries are projected to experience the steepest increase, but even in developed economies, vulnerable demographic subgroups manifest disparities in diabetes prevalence, quality of care, and outcomes. This book extends coverage to those underserved and[...]

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K. Dua, R. Shaker (Eds.)

Pancreas and Biliary Disease
A Point of Care Clinical Guide

This handbook provides a comprehensive overview of common disorders affecting the pancreas and the bile duct. The book reviews the anatomy and laboratory test relevant to the pathophysiology of the disease, categorizes the symptoms under clinical scenarios like “incidental finding” or “painless jaundice”, defines accuracy (or lack of) of the investigations used, and formulates a management plan as per evidence-based recommendations. The spectrum of diseases covered include commonly occurring benign conditions like pancreatitis, gall stone disease, bile duct strictures, and malignant diseases of the pancreas, gall bladder...
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**Metabolic Acidosis**
**A Guide to Clinical Assessment and Management**

This timely volume provides an overview to the causes, effects on systems and clinical approaches of metabolic acidosis. Beginning with a basic understanding of the physiology, pathophysiology and development of this disease, subsequent chapters cover the characteristics and context of the processes that can cause it and a thorough presentation of management strategies. Recommended treatments include those carried out by the health care provider as well as the individual patient, such as dietary management. Clinicians and healthcare professionals will find the tools needed to recognize, work up and manage patients with metabolic acidosis in this practical and concise resource.

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**Primary Sclerosing Cholangitis**
**Current Understanding, Management, and Future Developments**

This text provides a state-of-the-art review of primary sclerosing cholangitis (PSC). The volume focuses on new data about risk factors for the disease, the natural history of the disease, and the epidemiology and genetics of PSC, while providing a comprehensive overview on current and future therapies for PSC, management of cholangiocarcinoma, and other hepatobiliary malignancies. It also touches upon up-to-date surgical and endoscopic management, including liver transplantation—both deceased donor and living related liver transplantation. Written by experts in the field, Primary Sclerosing Cholangitis: Current Understanding, Management, and Future Developments is a valuable [...]

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**Comorbidities in Headache Disorders**

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Handbook of Incretin-based Therapies in Type 2 Diabetes

S. Gough (Ed.)

This concise handbook provides an overview of incretin-based therapies and guidance for incorporating them into the treatment of type 2 diabetes. Chapters include landmark clinical trials and international treatment guidelines in order to update readers with all major advances in the field. An ideal resource for medical professionals that treat patients with type 2 diabetes in hospital and clinical settings.

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G. Guaraldi, J. Falutz, C. Mussi, A.R. Silva (Eds.)

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J. Grosset, R. Chaisson (Eds.)

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Managing Patients with Obesity

H. González

This is a concise and timely review, which discusses the background of obesity, preventative care, medical and surgical treatment options, and long-term support for patients with obesity. Busy healthcare professionals who want a rapid review of obesity as well as a summary of the most recently approved surgical devices and medical therapies will benefit from this succinct guide.

More on www.springer.com/978-3-319-12330-1

Handbook of Incretin-based Therapies in Type 2 Diabetes

S. Gough (Ed.)

This concise handbook provides an overview of incretin-based therapies and guidance for incorporating them into the treatment of type 2 diabetes. Chapters include landmark clinical trials and international treatment guidelines in order to update readers with all major advances in the field. An ideal resource for medical professionals that treat patients with type 2 diabetes in hospital and clinical settings.

More on www.springer.com/978-3-319-08981-2

Handbook of Tuberculosis

J. Grosset, R. Chaisson (Eds.)

This concise, clinically focused handbook offers a complete overview of tuberculosis and reviews the latest guidelines, treatment options, clinical trials and management of this disease. Handbook of Tuberculosis is a well-rounded book written by renowned researchers at the Johns Hopkins Center for Tuberculosis Research. The easily accessible text offers infectious disease specialists, pulmonologists, and other healthcare workers an excellent quick reference tool, with full color tables and figures enhancing the text further. Tuberculosis is a life-threatening lung infection that affects people of all ages. It is the second biggest cause of death from infectious diseases and is the most...

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Managing the Older Adult Patient with HIV

G. Guaraldi, J. Falutz, C. Mussi, A.R. Silva (Eds.)
and other conditions. Comorbidities are rife within older[...]

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Forthcoming
O.M. Gutiérrez, K. Kalantar-Zadeh, R. Mehrotra (Eds.)

Clinical Aspects of Natural and Added Phosphorus in Foods
This comprehensive reference covers the impact of dietary phosphorus in phosphorus physiology, public health and the pathogenesis of disease. Divided into three parts, the first section is an overview of the history of phosphorus and the regulation of phosphorus homeostasis. The second section focuses on specific matters related to phosphorus in the food supply. Clinical applications of the material presented in the preceding sections are pulled together in the third section - including the importance of both phosphorus excess and phosphorus deficiency for the pathogenesis of a wide variety of disease including kidney, cardiovascular, bone and oncologic diseases.Clinical Aspects of[...]

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Forthcoming
A.C. Hackney (Ed.)

Sex Hormones, Exercise and Women
Scientific and Clinical Aspects
It is well-established, through extensive peer-reviewed published research, that physical activity and exercise training can impact the reproductive endocrine system of women. This ground-breaking, comprehensive title presents a range of unique insights into the opposite question: how the reproductive endocrine system of women affects their exercise ability. More precisely, the thematic question explored in this work is: if exercise affects reproductive hormones, conversely then could the reproductive hormones have physiological effects unrelated to reproduction that influence the capacity of women to exercise? In exploring this question, the goal is to better[...]

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R. Hehlmann (Ed.)

Chronic Myeloid Leukemia
This book provides state-of-the-art reviews of key issues and recent developments relating to chronic myeloid leukemia (CML), acquainting the reader with advances in research, treatment, and promotion of public health. Among the management topics addressed are the choices, advantages, and pitfalls of first-, second-, and third-line treatments; the European LeukemiaNet recommendations; management of adverse effects of tyrosine kinase inhibitors (TKI); management of CML blast crisis; management of pregnancy in the context of CML; the role of hematopoietic cell transplantation; the current experience with TKI discontinuation; and the value of interferon α in improving the outcome of TKI[...]

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S.K. Imam, S.J. Ahmad (Eds.)

Thyroid Disorders
Basic Science and Clinical Practice
This book provides comprehensive knowledge about thyroid gland and highlights the recent trends in the management of thyroid dysfunctions. Thyroid disorders are amongst the most prevalent of medical conditions possibly after diabetes. The prevalence of thyroid dysfunction in adults in the general population ranges from 1 to 10 percent, and is even higher in selected groups. In the United Kingdom, 1–2% of the adult population is found to have thyroid dysfunction. It is interesting to note that thyroxin is the sixth most commonly dispensed drug in Scotland. Virtually all studies report higher prevalence rates for hypothyroidism in women and with advancing age. Abnormal thyroid functions[...]

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M. Inaba (Ed.)

Musculoskeletal Disease Associated with Diabetes Mellitus
The aim of this book is to review the latest findings on musculoskeletal disease associated with diabetes. It has been increasingly recognized that maintaining skeletal health is an important factor in achieving longevity in healthy subjects. Diabetes has been established as a disease independently associated with sarcopenia and increased risk of bone fracture resulting from osteoporosis; therefore, it is reasonable to maintain that musculoskeletal health is important in preserving good health. As either bone or muscle is intimately involved in the regulation of metabolic status, keeping the musculoskeletal system healthy is important for improving abnormal glucose metabolism toward[...]

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Physician's Guide
Understanding and Working With Integrated Case Managers
Improving the outcomes for patients in our changing healthcare system is not straightforward. This grounding publication on case management helps physicians better meet the unique needs of patients who present with poor health and high health-

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care-related costs, i.e., health complexity. It details the many challenges and optimal practices needed to work effectively with various types of case managers to improve patient outcomes. Special attention is given to integrated case management (ICM), specifically designed for those with health complexity. The book provides a systematic method for identifying and addressing the needs of patients with biological, psychological, social, and [...]
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**Diagnosis and Management of Craniopharyngiomas**

**Key Current Topics**

This book provides up-to-date coverage of the most relevant topics in the diagnosis and management of craniopharyngiomas. After introductory discussion of natural history and clinical presentation, individual chapters are devoted to pathological and molecular aspects, use of diagnostic imaging techniques, the surgical approach to craniopharyngiomas, radiotherapy and radiosurgery, and associated endocrine disturbances. A particular feature of the book is the detailed attention devoted to the metabolic consequences of the disease and related treatments, including obesity and electrolyte disturbances, and to cognitive alterations. This book will be of value to oncologists, neurosurgeons, [...] More on [www.springer.com/978-3-319-22296-7](http://www.springer.com/978-3-319-22296-7)

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A.C. Mehta, P. Jain, Th.R. Gildea (Eds.)

**Waldenström’s Macroglobulinemia**

This book sheds new light on clinical, biological and therapeutic data on the rare disease Waldenström’s Macroglobulinemia (WM) with the participation of widely-recognized experts, involved in this field. It represents the efforts of physicians, scientists and patients, all around the world, to better understand and cure this rare disease. Considerable advances in the diagnosis, treatment indications, response criteria, prognostic factors and treatment options have been made since Dr Jan Waldenström first reported this “new syndrome” 70 years ago. Particularly instrumental in advancing of our understanding of WM have been the eight international workshops devoted to this disease. New, [...] More on [www.springer.com/978-3-319-22853-8](http://www.springer.com/978-3-319-22853-8)

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J.S. Lee, M. Donahoe (Eds.)

**Hematologic Abnormalities and Acute Lung Syndromes**

This book provides a unique frame work for examining acute lung syndromes that arise from hematologic disorders or is defined by a hematologic abnormality as a key feature. Acute lung processes arising from hematologic disorders can present as life-threatening conditions, and as such, the pulmonary physician or critical care physician are often directly involved in care or called upon to provide expertise. Chapters are organized into three sections, each with an emphasis on pathogenesis and current understanding of mechanisms. The text begins with the central theme of the lungs as the direct interface between the external environment and blood, description of individual components of [...] More on [www.springer.com/978-3-319-41910-7](http://www.springer.com/978-3-319-41910-7)

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D.A. Marcus, D.M. Ready

**Discussing Migraine With Your Patients**

**A Common Sense Guide for Clinicians**

This engaging and highly practical title is designed to support healthcare professionals in providing the best possible care for their patients with migraine. Developed by two leading authorities in the field who bring wit and warmth to their writing, the book combines the valuable wisdom of their clinical expertise with cutting edge scientific synthesis and helpful clinical pearls. Replete with a plethora of instructional aids and clinical tools (such as patient handouts, questionnaires, checklists, video clips, and quick-reference boxes), Discussing Migraine with Your Patients: A Common Sense Guide for Clinicians reviews migraine treatment in an evidence-based manner -- according to [...] More on [www.springer.com/978-1-4939-6482-6](http://www.springer.com/978-1-4939-6482-6)

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A.C. Mehta, P. Jain, Th.R. Gildea (Eds.)

**Diseases of the Central Airways**

**A Clinical Guide**

This book explores the non-interventional aspects of interventional pulmonology, focusing on diseases of the central airways. As the field of bronchology and...
Etiology of Acute Leukemias in Children

Childhood acute leukemias are one of the main causes of death in children aged 1 to 14 years in some countries; and unfortunately, we have been unable to prevent it. Certainly, a good parcel of it is due to the poor understanding about its etiology. This book aims to describe the most important theories and hypothesis regarding childhood acute leukemia. Written by the most outstanding researchers in the field, this book intends to contribute to a greater understanding of the etiology of this disease. It goes beyond the simple and common analysis of risk factors, which hardly allows us to draw definite conclusions. By addressing the etiology of the disease, discussing from molecular[...]

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Dialysis in Older Adults
A Clinical Handbook

This practical handbook offers quick and sound advice on the many issues faced when dialyzing the older patient. It is authored by well-known international experts who have covered the full range of end stage renal disorders including treatment options, patient management and maximization of quality of life. Accessible and easy-to-read, Dialysis in Older Adults serves as the go-to reference for clinicians and members of their team as they treat this challenging patient population.

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Hepatitis C Virus II
Infection and Disease

This book helps scientists, clinicians and other interested individuals understand recent clinical advances and challenges for the future. It covers many basic aspects of the pathogenesis of chronic hepatitis C, HCV infections in particular populations, approaches to therapy, and prevention and control of HCV Infection. The book provides a succinct review of the large amount of data generated by multiple groups over the past two decades that has revealed the natural history of HCV infection. Similarly, it summarizes current understanding of the origins of HCV-associated hepatocellular carcinoma, cirrhosis and hepatic fibrosis. Extra-hepatic manifestation and metabolic disorders[...]

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nity involvement in infectious-disease prevention, management and control. It also emphasizes the importance of surveillance and setting up strategies on infectious-disease management that are favourable for poor communities and developing countries. Infectious Diseases and Rural[...]


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H. Nakamura, K. Aoshiba (Eds.)

**Chronic Obstructive Pulmonary Disease**

A Systemic Inflammatory Disease

This book considers chronic obstructive pulmonary disease (COPD) not as a simple inflammation of the lung but as a systemic inflammatory disease. Beginning with epidemiological studies, etiology, diagnosis and treatment, it elaborates further, illustrating some comorbidities and associations with other respiratory diseases. As such it provides numerous improved and more comprehensive treatment methods, including drug therapies as well as some non-drug therapies. There are also chapters describing the pathogenesis, genetic abnormalities and newly discovered pathogenetic mechanisms that are expected to be studied further in the future.Edited and written by pioneering researchers, each[...]


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**Handbook of Thromboprophylaxis**

This third edition expands upon the role of anticoagulants in clinical practice. In addition, it summarizes new developments in the field and provides evidence-based guidelines for the use of anticoagulants in routine day-to-day practice. The Handbook of Thromboprophylaxis Third Edition is a key resource for all physicians with an interest in thromboprophylaxis.

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**Respiratory Contagion**

The book focuses on the contagion nature of respiratory ailments, the ways a pulmonary disease is spread. Respiratory infections are surrounded by interrelated circumstances that act upon individual and community and eventually underlie morbidity. Patient’s age, vulnerability to infections, immune function and responses, comorbidities, but also medical care and the agility in coping with stress, are just a few basic determinants of a diseased state. Modern medication, like newfangled antibiotics and their unrestrained use, may not guarantee the best solution to patient’s condition. A valuable asset of this book is a blend of personal experience and expertise of contributors in pursuit[...]

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**Guide to Clinical Management of Idiopathic Pulmonary Fibrosis**

This clinically focused pocket guide offers a concise yet complete overview of idiopathic pulmonary fibrosis, covering the most recent information on aspects such as pathophysiology, management, treatment, and clinical trials. The text is easily accessible and offers pulmonologists and other health care professionals with an excellent quick reference tool. Full color images and figures enhance and summarize key aspects of the text. Idiopathic pulmonary fibrosis is a condition that affects the alveoli and leads to serious lung damage, and the idiopathic nature of this disease means that the origin or cause is unknown. This disease is relatively rare, affecting 3 in 10,000 people, but[...]

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**The Liver in Systemic Diseases**

Based on the results of studies on autoimmunity, the endocrine system, nutrients, metal metabolism and intestinal bacterial flora, this volume thoroughly covers studies on functional correlation of the liver with the spleen, visceral fat, intestinal tract, and central nervous system. Including associations with dysbiosis, nonalcoholic steatohepatitis (NASH) and hepatocellular carcinoma, it offers comprehensive data on correlations of organs with the liver from basic and clinical viewpoints. The Liver in Systemic Diseases will especially be of interest to researchers, clinical residents and medical students with an interest in hepatology and gastroenterology. Furthermore, the book has[...]

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Respiratory Medicine and Science
This is the book that provides expert advice on the clinical aspects of respiratory disorders. The exemplary topics are obstructive sleep apnea, chronic obstructive pulmonary disease, angiographic sequelae of sarcoidosis, or epidemiology of seasonal influenza epidemics. The emphasis is placed on the pathogenetic aspects, and the relevance and translational potential of experimental studies. The book also presents the latest trends having to with more accessible and personalized health care for chronically ill aged persons, stressing the importance of the mental and emotional sphere in upholding the feeling of life satisfaction. The entwinement of pathophysiological processes raises[...]

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Forthcoming
M. Pokorski (Ed.)

Pulmonary Infection and Inflammation
Pulmonary diseases are the major cause of human morbidity, taxing the health care system due to disease prevalence, chronicity, and social and fiscal costs. This book concentrates on the inflammatory and immunogenic settings of pulmonary disorders and related medical areas. Excessive inflammation causes lung injury and forms a conducive background for pathogenic infections, particularly in immuno-compromised hosts. Bacterial immuno-evasive strategies develop, leading to self-perpetuating pathologies. Inflammation also is an essential component of non-communicable lung diseases, including asthma and respiratory allergies, and smoking-related or granulomatous diseases. The chapters[...]

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Forthcoming
M. Pokorski (Ed.)

Pulmonary Dysfunction and Disease
Lung ventilation is driven by a complex neural regulatory network, and apart from conditions typically observed during a disease state, it is sensitive to functional dysregulation. This book focuses on a wide variety of pulmonary topics including inflammation, infection, cancerogenesis, hypoxia, and stress. The chapters deal with the pathophysiologic background of processes and mechanisms whereby abnormal or undesired conditions develop and progress. The exemplary topics concern the genotyping of mutations involved in the development of lung cancer, which helps target molecular anticancer therapy, or the advances in computed tomography technology employed in pulmonary diagnostics.[...]

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Forthcoming
T. Saito, J.H. Stone, H. Nakashima, T. Saeki, M. Kawano (Eds.)

IgG4-Related Kidney Disease
This book offers a detailed review of the pathological and imaging features, diagnosis and treatment of IgG4-Related Kidney Disease (IgG4RKD). IgG4-related disease (IgG4RD), which is characterized by an elevated serum IgG4 level and infiltration of systemic organs by IgG4 positive plasma cells, is a newly recognized systemic disease. Diverse renal manifestations including specific tubulointerstitial nephritis, membranous nephropathy, and tumor-like urological diseases extending to the pelvis and urinary tract in IgG4RD have been reported and are recently attracting attention as IgG4RD. In this book, leading researchers in the field present the latest insights into the broad spectrum.[...]

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A.K. Singh, R. Agarwal (Eds.)

Core Concepts in Hypertension in Kidney Disease
This guide provides a comprehensive review of the full spectrum of hypertension in chronic kidney disease (CKD). Targeted towards the busy practitioner, the focus of this volume is on various therapies and how to lower blood pressure through lifestyle changes. Specialist patient populations and hypertension and causes of hypertension are also covered in detail. Clinically-focused and authoritative, this resource offers a rationalized approach to diagnosing and treating hypertension in CKD.

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L.M. Sterni, J.L. Carroll (Eds.)

Caring for the Ventilator Dependent Child
A Clinical Guide
This book is an important new resource for clinicians caring for ventilator dependent children, who often have complex health care needs, are supported by advanced technology and are at high-risk of seri-
ous complications. Despite the complicated health care needs of children who rely on chronic respiratory support, there are few guidelines and little evidence available to guide the clinicians who care for these patients. This book covers the many aspects involved in the care of these complex children, with input from experts in the fields of pediatric pulmonology, intensive care, genetics, respiratory therapy, and nursing. In depth chapters provide an introduction to the use of chronic [...] More on www.springer.com/978-1-4939-3747-9

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This volume provides a comprehensive and state-of-the-art overview of the major issues specific to managing bleeding patients. The sections of the book have been structured to review the overall scope of issue, among them bleeding conditions, managing bleeding including clearing patients for surgery, and massive bleeding during surgery. Reflecting the multidisciplinary care that is an integral part of managing bleeding patients, the book is written by authors from a variety of integrated disciplines, including transfusion medicine, hematology, pediatric hematology, critical care medicine, pediatric critical care medicine, obstetrics, and anesthesiology. The volume also includes brief [...] More on www.springer.com/978-3-319-30724-4

**Vascular Engineering**

*New Prospects of Vascular Medicine and Biology with a Multidiscipline Approach*

This book describes the fundamental biology and mechanics of the vasculature and examines how this knowledge has underpinned the development of new clinical modalities, including endovascular treatment and vascularization of reconstructed tissue for regenerative medicine. Vascular engineering is a multidisciplinary field integrating vascular biology, hemodynamics, biomechanics, tissue engineering, and medicine. Each chapter offers insights into the dynamics of the circulatory system and explains how the impact of related disease conditions — atherosclerosis, hypertension, myocardial ischemia, and cerebral infarction — has generated a focus on developing expertise to both maintain and [...] More on www.springer.com/978-4-431-54800-3

**Helicobacter pylori**

This book provides a detailed review of the most recent pathogenetic, diagnostic and therapeutic approaches in connection with *Helicobacter pylori*, along with priority areas in research and trends in clinical practice to address this significant pathogen acknowledged as the causative agent in a wide range of diseases, including gastric adenocarcinoma, MALT lymphoma and immune thrombocytopenic purpura (ITP). Medical authorities worldwide now recommend a “test and treat” strategy for this bacterial infection. Eradication therapy approaches range from general mass eradication therapy to tailor-made therapy for antibiotic-resistant refractory infection. In regions with high prevalence of [...] More on www.springer.com/978-4-431-55704-3

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