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[Diagnostic Evaluation of the Respiratory System](#)    Jul 29 2019 This book is a practical guide to the diagnosis of respiratory disorders, helping clinicians recognise signs and symptoms, decide on the most appropriate diagnostic tests, and to interpret the results. Divided into four sections, the book covers respiratory system assessment, evaluation of respiratory function, diagnostic imaging, and invasive diagnostic techniques. The imaging section includes radiograph, computed tomography, angiography, and ultrasonography. The invasive diagnostic procedures section covers bronchoscopy, lung biopsy, transbronchial needle aspiration and more. Video-assisted thoracic surgery as a diagnostic tool is also discussed. Authored by recognised expert Professor Claudio Sorino from University of Palermo, this useful manual is enhanced by clinical images and figures. Key Points Practical guide to diagnosis of respiratory disorders Helps clinicians recognise signs and symptoms, choose appropriate diagnostic tests and interpret results Includes chapter on video-assisted thoracic surgery

as a diagnostic tool Authored by recognised expert from University of Palermo

Medical Semiology Guide of the Respiratory System Sep 30 2019 Medical  
Semiology Guide of the Respiratory System provides a comprehensive understanding of medical semiology to facilitate the learning process and stimulate medical thinking in respiratory medicine. Highly illustrated, with many original images from the author's daily medical practice, the book highlights all signs of diseases and important semiological maneuvers. Each chapter incorporates a specific questionnaire with important questions that need to be addressed in different situations to obtain valuable information to help in medical thinking and in the formulation of a diagnosis. Contains comprehensive coverage of respiratory semiology for proper patient diagnosis Includes original, real-world clinical cases from medical practice to help in the development and formation of medical clinical thinking Contains visual and diagnostic aides in the form of original images that present rare, special situation and difficult to find diseases

The Human Respiratory System Oct 04 2022 The Human Respiratory System combines emerging ideas from biology and mathematics to show the reader how to produce models for the development of biomedical engineering applications associated with the lungs and airways. Mathematically mature but in its infancy as far as engineering uses are concerned, fractional calculus is the basis of the methods chosen for system analysis and modelling. This reflects two decades' worth of conceptual development which is now suitable for bringing to bear in biomedical engineering. The text reveals the latest trends in modelling and identification of human respiratory parameters with a view to developing diagnosis and monitoring technologies. Of special interest is the notion of fractal structure which is indicative of the large-scale biological efficiency of the pulmonary system. The related idea of fractal dimension represents the adaptations in fractal structure caused by environmental factors, notably including disease. These basics are linked to model the dynamical patterns of breathing as a whole. The ideas presented in the book are validated using real data generated from healthy subjects and respiratory patients and rest on non-invasive measurement methods. The Human Respiratory System will be of interest to applied mathematicians studying the modelling of biological systems, to clinicians with interests outside the traditional borders of medicine, and to engineers working with technologies of either direct medical significance or for mitigating changes in the respiratory system caused by, for example, high-altitude or deep-sea environments.

The Human Respiratory System Aug 10 2020 The human respiratory system is what makes people able to breathe. This detailed guide explains what the respiratory system is, how it works, and the key organs used in its processes. Fun fact boxes, vivid photographs and diagrams, and

accessible language paint a detailed picture of the respiratory system and highlight its importance for human life. Readers are also asked to think independently about life science through discussion questions based on the informative narrative.

The Microbiology of Respiratory System Infections Nov 12 2020 The Microbiology of Respiratory System Infections reviews modern approaches in the diagnosis, treatment, and prophylaxis of respiratory system infections. The book is very useful for researchers, scientists, academics, medical practitioners, graduate and postgraduate students, and specialists from pharmaceutical and laboratory diagnostic companies. The book has been divided into three sections according to the types of respiratory pathogens. The first section contains reviews on the most common and epidemiologically important respiratory viruses, such as influenza virus, severe acute respiratory system coronavirus, and recently discovered Middle East respiratory syndrome coronavirus. The second section is devoted to bacterial and fungal pathogens, which discusses etiology and pathogenesis including infections in patients with compromised immune system, and infections caused by fungal pathogens, such as Aspergillus and Pneumocystis. The third section incorporates treatment approaches against different types of bacterial infections of the lower respiratory tract. This section reviews classical antimicrobial and phytomedical approaches as well as the application of nanotechnology against respiratory pathogens. Offers the most up to date information on the microbiology of lower respiratory system infections Features contributors from across the world, presenting questions of interest to readers of both developed and developing countries Reviews the most common and epidemiologically important respiratory viruses Discusses the etiology and pathogenesis of bacterial and fungal pathogens including infections in patients with compromised immune system, and infections caused by fungal pathogens, such as Aspergillus and Pneumocystis

The Respiratory System Aug 02 2022 Describes the anatomy, function, mechanics, diseases, and disorders of the human respiratory system.

Regulation of Tissue Oxygenation, Second Edition Feb 13 2021 This presentation describes various aspects of the regulation of tissue oxygenation, including the roles of the circulatory system, respiratory system, and blood, the carrier of oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the

mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO<sub>2</sub> on the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical PO<sub>2</sub>. In order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

The Respiratory System \_\_\_ May 31 2022 Illustrates the respiratory system from the frontal sinus to the diaphragm. Includes views of the paranasal sinuses, larynx, and bronchopulmonary segments. Also shows the structure of intrapulmonary airways and the cross section of alveolus. Discusses the conducting system, lungs and pleurae, ventilation and gas exchange.

Back to Basics in Physiology Jan 03 2020 This original six chapter book will briefly review and integrate the basic concepts behind water distribution and movement in the body. This fills a knowledge gap that most medical and undergraduate physiology students acquire when these topics are studied separately. As of now, there is no textbook that fully integrates renal, cardiovascular and water physiology in a clear understandable manner. The book is intended primarily for medical students and undergraduate physiology students. Chapters include: 1) Water and its Distribution; 2) Water Dynamics; 3) Fluid Handling by the Heart and Blood Vessels; 4) Fluid Handling by the Kidneys; 5) Water and Oxygen Delivery; 6) Integration in the Response to Hemorrhage, Volume Depletion, and Water Redistribution. An easy-to-read, step by step explanation of how water is distributed, how it moves, how this aides in oxygen delivery and how this is regulated in the human body. Presents a complex and detailed topic in an original way that will allow students to understand more complex textbooks and explanations

The Respiratory System at a Glance Sep 03 2022 Following the familiar, easy to use at a Glance format, and now in full-colour, The Respiratory System at a Glance is an accessible introduction and revision text for medical students. Reflecting changes to the content and assessment methods used in medical education and published clinical recommendations, this at a Glance provides a user-friendly overview of the respiratory system to encapsulate all that the student needs to know. This new edition of The Respiratory System at a Glance: Integrates both basic and clinical science - ideal for systems-based courses Includes both the pathophysiology and clinical aspects of the

respiratory system Features more case studies, updated and colour figures, and new chapters on the epidemiology of respiratory disease, public health issues, and Sarcoidosis Includes self-assessment questions and answers and an appendix of tables of standard values Provides a simple 'one-stop' easy to use course and revision text

The Respiratory System Feb 25 2022 Describes the various parts of the respiratory system and how they work, and discusses asthma, lung cancer and other lung diseases, and related topics.

Your Respiratory System Nov 24 2021 Audisee® eBooks with Audio combine professional narration and text highlighting for an engaging read aloud experience! The respiratory system is made up of the nose, the throat, the lungs, and other parts. But what does the respiratory system do? And how do its parts work together to keep your body healthy? Explore the respiratory system in this engaging and informative book.

Computational Fluid and Particle Dynamics in the Human Respiratory System Jul 21 2021 Traditional research methodologies in the human respiratory system have always been challenging due to their invasive nature. Recent advances in medical imaging and computational fluid dynamics (CFD) have accelerated this research. This book compiles and details recent advances in the modelling of the respiratory system for researchers, engineers, scientists, and health practitioners. It breaks down the complexities of this field and provides both students and scientists with an introduction and starting point to the physiology of the respiratory system, fluid dynamics and advanced CFD modeling tools. In addition to a brief introduction to the physics of the respiratory system and an overview of computational methods, the book contains best-practice guidelines for establishing high-quality computational models and simulations. Inspiration for new simulations can be gained through innovative case studies as well as hands-on practice using pre-made computational code. Last but not least, students and researchers are presented the latest biomedical research activities, and the computational visualizations will enhance their understanding of physiological functions of the respiratory system.

Fundamentals of Toxicologic Pathology Mar 05 2020 Toxicologic pathology integrates toxicology and the disciplines within it (such as biochemistry, pharmacodynamics and risk assessment) to pathology and its related disciplines (such as physiology, microbiology, immunology, and molecular biology). Fundamentals of Toxicologic Pathology Second Edition updates the information presented in the first edition, including five entirely new chapters addressing basic concepts in toxicologic pathology, along with color photomicrographs that show examples of specific toxicant-induced diseases in animals. The current edition also includes comparative information that will prove a valuable resource to practitioners, including diagnostic pathologists and toxicologists. 25% brand new information, fully revised throughout

New chapters: Veterinary Diagnostic Toxicologic Pathology; Clinical Pathology; Nomenclature: Terminology for Morphologic Alterations; Techniques in Toxicologic Pathology New color photomicrographs detailing specific toxicant-induced diseases in animals Mechanistic information integrated from both toxicology and pathology discussing basic mechanisms of toxic injury and morphologic expression at the subcellular, cellular, and tissue levels

Structure-Function Relationships in Various Respiratory Systems \_\_\_\_\_ Mar

29 2022 This book elucidates the morphological backgrounds of various functional parameters of the human respiratory system, including the respiratory control system, dynamics of the upper and lower airways, gas transport and mixing in the lower airways, gas exchange in the acinus, and gas transfer through the alveolar wall. Presenting the latest findings on the interrelationships between morphology and physiology in the respiratory system, the book's goal is to provide a foundation for further exploring structure-function relationships in various respiratory systems, and to improve both the quality of basic science, and that of clinical medicine targeting the human respiratory system. Edited and written by internationally recognized experts, Structure-Function Relationships in Various Respiratory Systems offers a valuable asset for all physicians and researchers engaging in clinical, physiological, or morphological work in the field of respiration. Moreover, it provides a practical guide for physicians, helping them make more precise pathophysiological decisions concerning patients with various types of lung disease, and will be of interest to respiratory physiologists and respiratory morphologists.

Anatomy & Physiology Mar 17 2021

The Respiratory System Sep 10 2020

The Respiratory System Jan 15 2021 Describes how the respiratory system works and the types of diseases and how they affect the body.

A Practical Guide to the Histology of the Mouse Dec 02 2019 A

Practical Guide to the Histology of the Mouse provides a full-colour atlas of mouse histology. Mouse models of disease are used extensively in biomedical research with many hundreds of new models being generated each year. Complete phenotypic analysis of all of these models can benefit from histologic review of the tissues. This book is aimed at veterinary and medical pathologists who are unfamiliar with mouse tissues and scientists who wish to evaluate their own mouse models. It provides practical guidance on the collection, sampling and analysis of mouse tissue samples in order to maximize the information that can be gained from these tissues. As well as illustrating the normal microscopic anatomy of the mouse, the book also describes and explains the common anatomic variations, artefacts associated with tissue collection and background lesions to help the scientist to distinguish these changes from experimentally- induced lesions. This will be an essential bench-side companion for researchers and

practitioners looking for an accessible and well-illustrated guide to mouse pathology. Written by experienced pathologists and specifically tailored to the needs of scientists and histologists Full colour throughout Provides advice on sampling tissues, necropsy and recording data Includes common anatomic variations, background lesions and artefacts which will help non-experts understand whether histologic variations seen are part of the normal background or related to their experimental manipulation

The Respiratory System, Third Edition Aug 22 2021 Praise for the previous edition: "...well-developed...clear and detailed...useful at the secondary level in health and anatomy classes and for research...Recommended."—Library Media Connection Breathing is essential to human survival, as it gives us the necessary oxygen we need to live. Yet the act of respiration is an involuntary process, something many people do not think about on a day-to-day basis. The Respiratory System, Third Edition explains how we get air into our lungs, how our bodies use that air, and the fundamental physical and biological principles underlying respiratory function. In addition, this essential title examines several respiratory diseases and how they affect the body as a whole. Packed with full-color photographs and illustrations, this absorbing book provides students with sufficient background information through references, websites, and suggested reading for further study.

The Biology of the Avian Respiratory System \_\_\_\_\_ Oct 24 2021 The central focus of this book is the avian respiratory system. The authors explain why the respiratory system of modern birds is built the way it is and works the way that it does. Birds have been and continue to attract particular interest to biologists. The more birds are studied, the more it is appreciated that the existence of human-kind on earth very much depends directly and indirectly on the existence of birds. Regarding the avian respiratory system, published works are scattered in biological journals of fields like physiology, behavior, anatomy/morphology and ecology while others appear in as far afield as paleontology and geology. The contributors to this book are world-renowned experts in their various fields of study. Special attention is given to the evolution, the structure, the function and the development of the lung-air sac system. Readers will not only discover the origin of birds but will also learn how the respiratory system of theropod dinosaurs worked and may have transformed into the avian one. In addition, the work explores such aspects as swallowing mechanism in birds, the adaptations that have evolved for flight at extreme altitude and gas exchange in eggs. It is a highly informative and carefully presented work that provides cutting edge scientific insights for readers with an interest in the respiratory biology and the evolution of birds.

The Respiratory System Sep 22 2021 The Systems of the Body series has

established itself as a highly valuable resource for medical and other health science students following today's systems-based courses. Now thoroughly revised and updated in this third edition, each volume presents the core knowledge of basic science and clinical conditions that medical students need, providing a concise, fully integrated view of each major body system that can be hard to find in more traditionally arranged textbooks or other resources. Multiple case studies help relate key principles to current practice, with links to clinical skills, clinical investigation and therapeutics made clear throughout. Each (print) volume also now comes with access to the complete, enhanced eBook version, offering easy anytime, anywhere access - as well as self-assessment material to check your understanding and aid exam preparation. The Respiratory System provides highly accessible coverage of the core basic science principles in the context of clinical case histories, giving the reader a fully integrated understanding of the system and its major diseases.

Introduction  
Structure and function of the respiratory system  
Elastic properties of the respiratory system  
Airflow and resistance in the respiratory system  
Pulmonary Ventilation  
Diffusion of Gases between air and blood  
The Pulmonary Circulation  
Carriage of gases by the blood and acid/base balance  
Nervous control of breathing  
Chemical control of breathing  
Lung function tests  
Systems of the Body  
Series: The Renal System  
The Musculoskeletal System  
The Nervous System  
The Digestive System  
The Endocrine System  
The Respiratory System  
The Cardiovascular System

20 Fun Facts About the Respiratory System      Apr 17 2021  
Oxygen is one of the most essential needs for life on Earth, and respiration is how living things use it. But there's a lot more going on in this seemingly simple process than you might think. The respiratory system is in some ways the most underappreciated of the body systems, since it works 24/7, mostly without being noticed, and never gets a single moment's rest. In this book, readers discover the most fascinating facts about respiration, the structure of the lungs, and even some of the seemingly gross processes that happen in their body!

The Respiratory System      May 19 2021  
In 1815, a family escapes from slavery in Florida. Three years later they are caught up in the First Seminole War. Cover-to-Cover Novel.

Respiratory System, The      Jan 27 2022  
How do we breathe and why do we need oxygen? Your lungs work hard to keep oxygen flowing through your blood. This book explains how the respiratory system functions to take in the air we need to live.

The Respiratory System      Apr 29 2022  
Describes the workings of the respiratory system and its functions. Also discusses respiratory problems and how they can be avoided

Applied Respiratory Pathophysiology      Jun 27 2019  
This easy yet comprehensive reference guide covers the mechanisms of respiratory

diseases, explaining the main respiratory conditions for clinicians and postgraduate trainees. It discusses their aetiology as well as the basic concepts required to effectively evaluate and treat them. Applied Respiratory Pathophysiology is the first book to bring together detailed, clinically-relevant explanation of respiratory physiological processes and pathophysiological processes in one text. It is essential reading for anyone diagnosing and treating specific clinical conditions of the lungs.

**The Respiratory System** Jun 19 2021 People need to breathe to stay alive. This title explores how the lungs pull in air in order to send oxygen into the circulatory system. Easy-to-read text, vivid images, and helpful back matter give readers a clear look at this subject. Features include a table of contents, infographics, a glossary, additional resources, and an index. Aligned to Common Core Standards and correlated to state standards. Kids Core is an imprint of Abdo Publishing, a division of ABDO.

**The Respiratory System** May 07 2020 Describes the various parts of the human respiratory system and then explains how that system brings fresh oxygen into the body and carries carbon dioxide to the lungs to be expelled.

**Disorders of the Respiratory Tract** Jul 09 2020 A concise review of the epidemiology, pathogenesis, and management of common respiratory conditions seen in a primary care setting. Using an illuminating case-based approach, Dr. Mintz assesses the key clinical questions that a primary care physician would ask and applies the most up-to-date research and guidelines to offer the practitioner evidence-based solutions. The author covers the range of knowledge needed to provide excellent care for patients with respiratory disease, from the basics of pulmonary function testing to understanding and caring for common respiratory illnesses, including chronic obstructive pulmonary disease, asthma, allergic rhinitis, and pneumonia. For each disorder, Dr. Mintz explains the key points regarding the epidemiology of the disease, its pathophysiology, the differential diagnosis and diagnosis, and its recommended treatment. A special PDA version of Disorders of the Respiratory Tract: Common Challenges in Primary Care is also available.

**Pediatric and Neonatal Mechanical Ventilation** Feb 02 2020 Written by outstanding authorities from all over the world, this comprehensive new textbook on pediatric and neonatal ventilation puts the focus on the effective delivery of respiratory support to children, infants and newborns. In the early chapters, developmental issues concerning the respiratory system are considered, physiological and mechanical principles are introduced and airway management and conventional and alternative ventilation techniques are discussed. Thereafter, the rational use of mechanical ventilation in various pediatric and neonatal pathologies is explained, with the emphasis on a practical

step-by-step approach. Respiratory monitoring and safety issues in ventilated patients are considered in detail, and many other topics of interest to the bedside clinician are covered, including the ethics of withdrawal of respiratory support and educational issues. Throughout, the text is complemented by numerous illustrations and key information is clearly summarized in tables and lists.

Learning About the Respiratory System      Apr 05 2020 "Learn about how the nose, throat and lungs all work together to keep us breathing"--

The Oxford Handbook of Evolutionary Medicine      Jul 01 2022 Medicine is grounded in the natural sciences, among which biology stands out with regard to the understanding of human physiology and conditions that cause dysfunction. Ironically though, evolutionary biology is a relatively disregarded field. One reason for this omission is that evolution is deemed a slow process. Indeed, macroanatomical features of our species have changed very little in the last 300,000 years. A more detailed look, however, reveals that novel ecological contingencies, partly in relation to cultural evolution, have brought about subtle changes pertaining to metabolism and immunology, including adaptations to dietary innovations, as well as adaptations to the exposure to novel pathogens. Rapid pathogen evolution and evolution of cancer cells cause major problems for the immune system to find adequate responses. In addition, many adaptations to past ecologies have turned into risk factors for somatic disease and psychological disorder in our modern worlds (i.e. mismatch), among which epidemics of autoimmune diseases, cardiovascular diseases, diabetes and obesity, as well as several forms of cancer stand out. In addition, depression, anxiety and other psychiatric conditions add to the list. The Oxford Handbook of Evolutionary Medicine is a compilation of cutting edge insights into the evolutionary history of ourselves as a species, and how and why our evolved design may convey vulnerability to disease. Written in a classic textbook style emphasising physiology and pathophysiology of all major organ systems, the Oxford Handbook of Evolutionary Medicine will be valuable for students as well as scholars in the fields of medicine, biology, anthropology and psychology.

Your Respiratory System Works!      Jun 07 2020 "Engaging text and informative images help readers learn about their respiratory system"--

The Respiratory System E-Book      Nov 05 2022 This is an integrated textbook on the respiratory system, covering the anatomy, physiology and biochemistry of the system, all presented in a clinically relevant context appropriate for the first two years of the medical student course. One of the seven volumes in the Systems of the Body series. Concise text covers the core anatomy, physiology and biochemistry in an integrated manner as required by system- and problem-based medical courses. The basic science is presented in the clinical context in a

way appropriate for the early part of the medical course. There is a linked website providing self-assessment material ideal for examination preparation.

Netter Collection of Medical Illustrations: Respiratory System E-Book Dec 14 2020 Respiratory System, 2nd Edition provides a concise and highly visual approach to the basic sciences and clinical pathology of this body system. This volume in The Netter Collection of Medical Illustrations (the CIBA "Green Books") has been expanded and revised by Dr. David Kaminsky to cover important topics like pulmonary hypertension, COPD, asthma, drug-resistant TB, modern endoscopic and surgical techniques, and more. Classic Netter art, updated illustrations, and modern imaging make this timeless work essential to your library. Access rare illustrations in one convenient source from the only Netter work devoted specifically to the respiratory system. Get a complete overview of the respiratory system through multidisciplinary coverage from physiology and biochemistry to adult and pediatric medicine and surgery. Gain a quick understanding of complex topics from a concise text-atlas format that provides a context bridge between primary and specialized medicine. Grasp the nuances of the pathophysiology of today's major respiratory conditions—including pulmonary hypertension, COPD, asthma, environmental lung disease, sleep disorders, infections of the immunocompromised, neonatal breathing disorders, and drug-resistant TB, and modern endoscopic and surgical techniques—through advances in molecular biology and radiologic imaging. Benefit from the expertise of the new editor, David Kaminsky, MD, who contributes significant experience in asthma and general pulmonary and critical care medicine, and his team of world class contributors. Clearly see the connection between basic and clinical sciences with an integrated overview of normal structure and function as it relates to pathologic conditions. Apply a visual approach—with the classic Netter art, updated illustrations, and modern imaging—to normal and abnormal body function and the clinical presentation of the patient. Tap into the perspectives of an international advisory board for content that reflects the current global consensus.

The Respiratory System Dec 26 2021 Discusses what the respiratory system is, how it works, and how it may be affected by various diseases.

The Respiratory System Oct 31 2019 A True Book explores the respiratory system, explaining why and how people breathe, how each organ works, and how certain diseases can influence respiration. Reprint.

The Respiratory Tract in Pediatric Critical Illness and Injury 2019 The principal role of the respiratory system is to permit efficient exchange of respiratory gases (O<sub>2</sub> and CO<sub>2</sub>) with the environment. The respiratory system is unique in that it is constantly exposed

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to a barrage of foreign substances from both the internal environment (at any one point in time, approximately one-half of the cardiac output is received by the lungs) and the external environment (with each breath, the respiratory tract is exposed to pollens, viruses, bacteria, smoke, etc). According to the Centers for Disease Control and Prevention, diseases of the respiratory system were the seventh and eighth leading causes of deaths in children aged 1 to 19 years in 2003 [1]. Dr. George A. Gregory, one of the founding fathers of pediatric critical care medicine, once estimated that acute respiratory failure accounts for nearly 50% of all admissions to the pediatric intensive care unit (PICU) [2]. Just as important are the many diseases that affect the respiratory system that are not associated with acute respiratory failure, but nevertheless constitute a major portion of the practice of pediatric critical care medicine, some of which account for significant morbidity and mortality [3]. Once again, we would like to dedicate this textbook to our families and to the physicians and nurses who provide steadfast care every day in pediatric intensive care units across the globe. Derek S. Wheeler  
Hector R. Wong Thomas P.

The Respiratory System at a Glance Oct 12 2020 The Respiratory System at a Glance has been thoroughly updated in line with current practice guidelines and new techniques to provide a highly illustrated and comprehensive guide to normal lung structure and function, as well as associated pathophysiology. Each topic has been fully revised and is accompanied by clear diagrams to encapsulate essential knowledge. Reflecting changes to the content, teaching and assessment methods used in medical education, this new edition now includes more information on acid base and its clinical ramifications, further detail on defence mechanisms and immunology, and also features online access to clinical cases and flashcards. The Respiratory System at a Glance: • Integrates basic and clinical science – ideal for integrated and systems-based courses • Includes both the pathophysiology and clinical aspects of the respiratory system • Is fully revised and updated to reflect current practice guidelines and new therapies • Provides online clinical cases, brand new flashcards, and MCQs • Includes a companion website at [www.ataglanceseries.com/respiratory](http://www.ataglanceseries.com/respiratory) featuring interactive multiple choice questions and digital flashcards