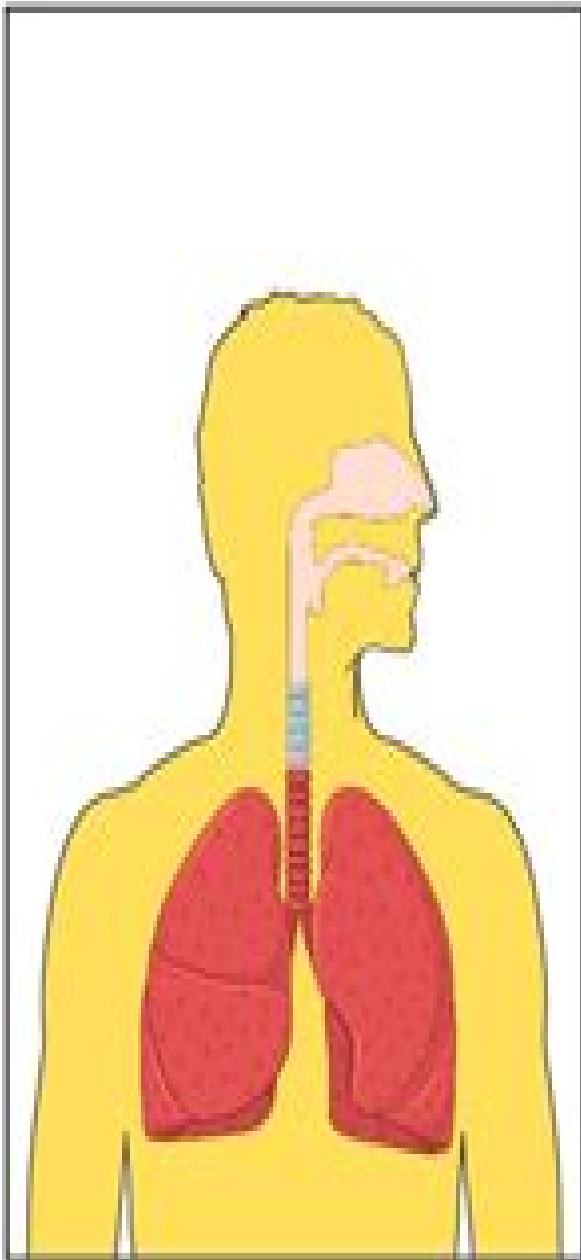
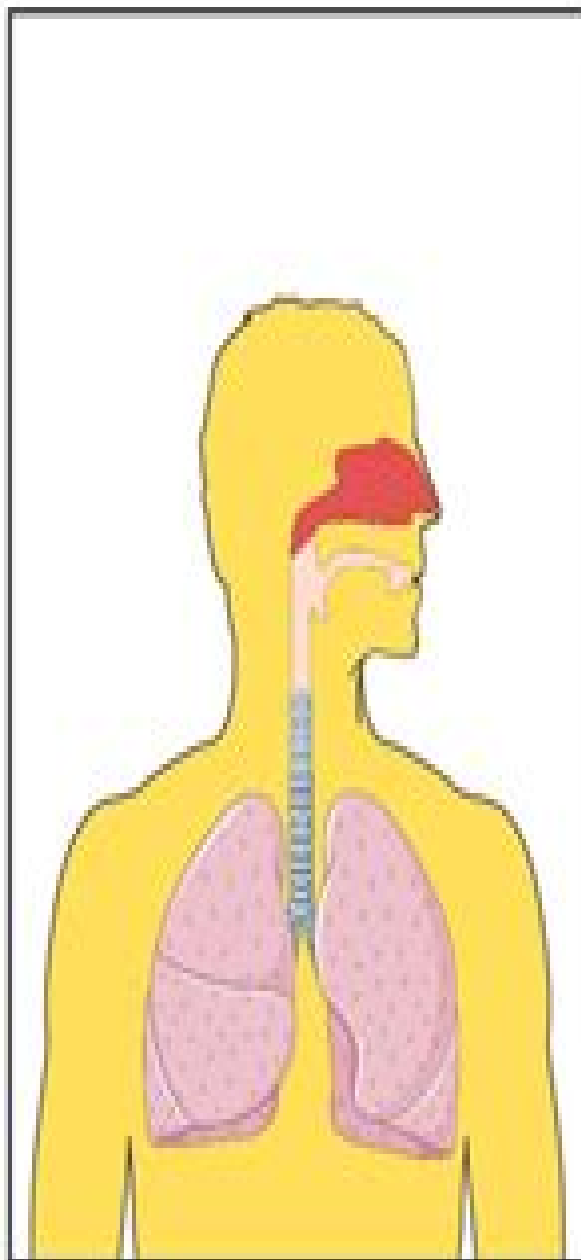
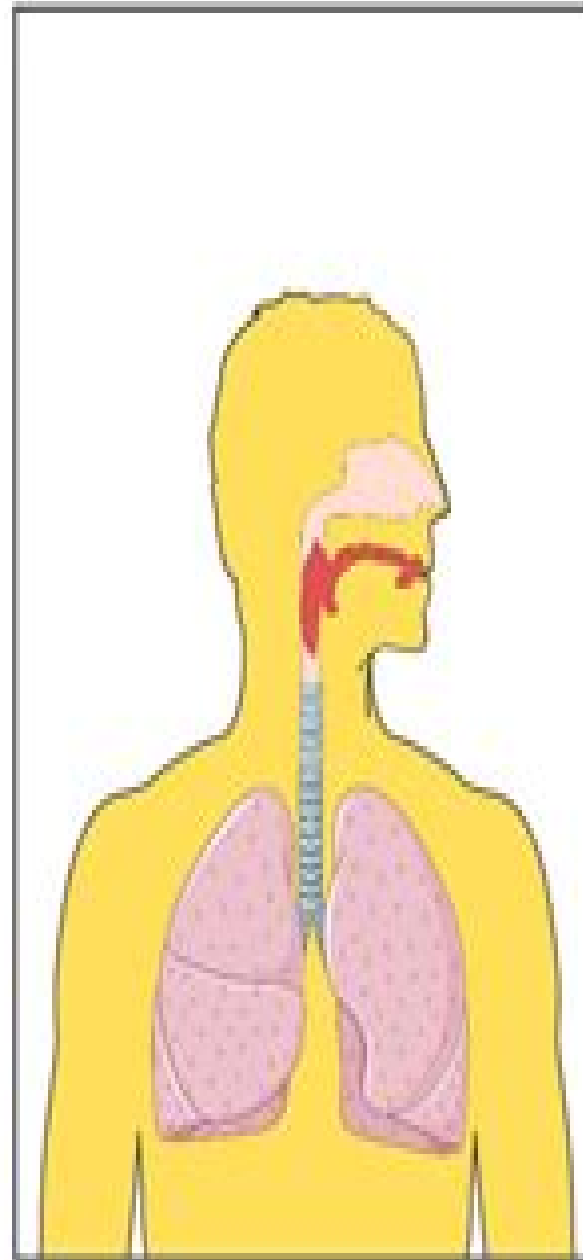




Induced sputum



Nasal lavage fluid



Pharyngeal lavage fluid

Airway Secretion

Teresa A. Volsko, Sherry Barnhart



Airway Secretion:

Airway Mucus: Basic Mechanisms and Clinical Perspectives D.F. Rogers, Michael Lethem, 1997-09-23 Conceptually unsavoury airway mucus is vital to homeostasis in the respiratory tract In contrast when abnormal mucus contributes significantly to the pathophysiology of a number of severe bronchial diseases including asthma chronic bronchitis and cystic fibrosis This volume provides wide ranging and in depth coverage of the scientific and clinical aspects of airway mucus It commences with introductory chapters which address the biochemical and molecular biological basis of airway mucus and continues with comprehensive coverage of the various physiological and rheological aspects of respiratory secretions The clinical aspects of the topic are then considered with chapters discussing the involvement of mucus secretions in bacterial infection and in hypersecretory diseases of the airway The volume concludes with a discussion of the therapeutic aspects of the topic both in terms of the possible approaches to the treatment of mucus hypersecretion and the interaction of these drugs with airway mucus Written by leading experts in the field each contribution provides a comprehensive review of its particular subject Reflecting the latest advances in this important area of respiratory research this volume will be of great interest to scientists and clinicians working in the field of airway secretions and related areas

Respiratory Disease and its Management A. McLuckie, 2009-07-28 Medical training for Intensive Care Medicine ICM has made great developments over the years Recent advances have led to the introduction of competency based training with a strong focus on the development of specific competencies at basic intermediate and advanced stages of learning This ensures trainees hold the appropriate skills and knowledge to undertake safe clinical practice and thus provide good patient care One of the key topics covered in ICM training is respiratory disease and its management Based on this it would therefore seem appropriate to introduce a text that addresses each of the key areas

Respiratory Management of ALS: Amyotrophic Lateral Sclerosis Lee Guion, 2010-10-25 The Respiratory Management of Motor Neuron Disease brings together the latest research expert opinions and treatment options for respiratory symptom management It provides a detailed step by step approach to assessment of upper and lower airway structures and how motor neuron loss impairs function Treatment options emphasize symptom management and enhanced quality of life Palliative care end of life decision making and long term mechanical ventilation in patients with MND ALS are included This textbook encourages critical thinking through 1 inclusion of researchable questions at the end of chapters and 2 discussion of different approaches to patient assessment and symptom management when medical evidence is lacking Students will be encouraged to use their understanding of anatomy physiology pharmacology lung expansion and secretion mobilization techniques to review support or challenge current practices in MND ALS Respiratory therapy students respiratory care practitioners nurses in neurology clinics primary care physicians and pulmonologists whose practice includes patients with motor neuron disease will all benefit from the detailed review of bulbar and thoracic muscles loss of function and treatment recommendations

Mucus Hypersecretion in Respiratory Disease

Derek J. Chadwick, Jamie A. Goode, 2003-07-07 A number of chronic respiratory diseases including chronic bronchitis asthma cystic fibrosis and bronchiectasis are characterized by mucus hypersecretion Following damage to the airway epithelium a repair process of dedifferentiation regenerative proliferation and redifferentiation takes place that is invariably accompanied by mucus hypersecretion as a key element in the host defence mechanism In chronic respiratory diseases however excessive mucus production leads to a pathological state with increased risk of infection hospitalization and morbidity An understanding of the mechanisms that underlie and maintain this hypersecretory phenotype is therefore crucial for the development of rational approaches to therapy Despite a high and increasing prevalence and cost to healthcare services and society mucus hypersecretion in chronic respiratory disease has received little attention until recently probably because of the difficulties inherent in studying this pathology Only in the last few years have some of the genes involved in mucus secretion been characterized The recent availability of genomic sequence information and specific antibodies has led to an explosion of interest in this area making this publication particularly timely This book draws together contributions from an international and interdisciplinary group of experts whose work is focused on both basic and clinical aspects of the problem Coverage includes epidemiology airways infection and mucus hypersecretion the genetics and regulation of mucus production models of mucus hypersecretion and the implications of new knowledge for the development of novel therapies

Muscarinic Receptors in Airways Diseases Johan Zaagsma, Herman Meurs, Ad F. Roffel, 2013-03-08 What are the different muscarinic acetylcholine receptor subtypes and how are they distributed in the airways and molecular signalling mechanisms What is their function in neurogenic and non neurogenic control of the airways and in inflammatory mechanisms How is their gene expression regulated The great importance of muscarinic acetylcholine receptors for the pathophysiology and treatment of chronic inflammatory obstructive airways diseases calls for a comprehensive and integrated overview of the current knowledge to address such questions to discuss the role of these receptor subtypes in diseases such as asthma and COPD and to present novel perspectives on antimuscarinic drug development The present book is the worthy result of this need It points out innovative insights into the hitherto poorly understood role of postjunctional muscarinic M2 receptors in airway smooth muscle contraction and sheds some light on the novel concepts of antimuscarinic drug development with special reference to the l *Biomedical Index to PHS-supported Research* ,1990 **Cough** Kian Fan Chung, John G.

Widdicombe, Homer A. Boushey, 2008-04-15 Cough is the most familiar symptom of respiratory disease and a problem which general practitioners must deal with on a daily basis This timely volume draws together a wealth of recent research into the mechanisms pharmacology and therapies for cough and places these in clinical context The text incorporates guidelines on the most common causes of cough discusses treatments and pitfalls in management summarizes current research on physiology pharmacology and treatment of cough and gives practical advice on diagnosis and management issues for the clinician Cough Causes Mechanisms and Therapy is the most comprehensive up to date account of the subject It will update

clinical and basic medical scientists and promote future research Readers are encouraged to implement the clinical implications of the discussion into routine practice This volume will appeal to all those involved in the treatment of respiratory disease particularly those in hospital respiratory units and will also be of use to interested general practitioners

Foundations in Neonatal and Pediatric Respiratory Care Teresa A. Volsko, Sherry Barnhart, 2022-05-25 Foundations in Neonatal and Pediatric Respiratory Care is unique The approach and layout of each chapter is standardized much like the format for scientific papers published in medical journals Each chapter provides the reader with a thorough review of the literature on the subject and the text is written in a clear and concise manner Illustrations tables and figures enhance the learning experience The supplemental web based materials provide relevant evidence based materials to enhance the reader's current practice and prepare them for the exam

Pulmonary Biology in Health and Disease Edward E. Bittar, 2007-05-28 Pulmonary Biology in Health and Disease was conceived as a companion to a handful of expensive multivolume textbooks This is part of the promising trend to publish shorter textbooks on the subjects of lung biology and remodeling Whoever is familiar with human biology and the far reaching consequences of the genome and postgenome revolutions is apt to concede that the centerpiece in remodeling lies in the field of molecular cardiobiology The field of molecular cardiobiology includes the syndrome of chronic heart failure as well as ischemic cardioprotection By analogy the centerpiece in pulmonobiology is chronic asthma Key topics in the present volume include signaling mechanisms regulating the endothelium and smooth muscle cells in inflammatory cells mediators airway surface liquid and pharmacological therapy that focuses on how inamed airways are altered Written primarily for predoctoral and postdoctoral graduates in the basic medical sciences the medical student and postdoctoral physician graduates in the allied sciences nurses pulmonologists and physicians in critical care medicine this book provides many of the fundamentals of contemporary pulmonology It is divided into several parts devoted to the control of respiration arterial chemoreceptors muscles of ventilation pulmonary physiology and gas exchange in health exercise and disease Special emphasis is placed on emphysema and its pathobiology acute lung injury asthma and inhaled toxicants Because the field is always evolving each chapter includes recommended readings that lead the reader to sources of additional information such as the review on remodeling of the blood gas barrier by West and Mathieu Costello

Respiratory Care Dean Hess, 2011-08-24 A new edition of the classic text is for respiratory care students who desire a complete and up to date exploration of the technical and professional aspects of respiratory care With foundations in evidence based practice this resource reviews respiratory assessment respiratory therapeutics respiratory diseases basic sciences and their application to respiratory care the respiratory care profession and much more Edited and authored by leading experts it incorporates the latest information on the practice of respiratory care into a well organized reader friendly guide to help students learn to develop care plans critical thinking skills strong communication and patient education skills and the clinical leadership skills needed to succeed This text provides essential information in a practical and manageable format for optimal learning and

retention Features include Clinical Practice Guidelines Key Points and Respiratory Recaps to help students apply knowledge to practice and retain key information as well as hundreds of glossary terms with clear definitions and concise explanations of important concepts and equations Also includes full color photos and illustrations and content cross referencing the NBRC examination matrices

Treatise on Pulmonary Toxicology Richard A. Parent, 1992-02-21 Comparative Biology of the Normal Lung is the first volume in a series entitled A Comprehensive Treatise on Pulmonary Toxicology The book is divided into four sections that deal with morphology and morphometry respiratory physiology biochemistry and pulmonary defense A special index lists and cross indexes all comparative data included in the text which provides readers with easy access to a broad spectrum of pulmonary data for a number of different species Over 50 internationally respected authors have contributed to this cutting edge scientific study designed for all scientists concerned with the pulmonary system including research scientists in medicine veterinary medicine zoology and toxicology

Oxford Textbook of Respiratory Critical Care Suveer Singh, Paolo Pelosi, Andrew Conway Morris, 2023-11-15 Respiratory critical care is essential to modern critical care medicine To successfully support critically ill patients an understanding of specific lung conditions and syndromes their pathophysiological basis and evidence based management strategies is of vital importance The Oxford Textbook of Respiratory Critical Care provides an authoritative account of respiratory critical care medicine with a clear focus on how to manage respiratory disease in the critically ill The fundamentals of pathophysiology diagnosis and treatment for respiratory diseases and conditions are outlined with a specific focus on management in the critical care setting Across 66 chapters common and unusual respiratory conditions are included as well as those aspects of pulmonary disease in which the management in critical illness is unique The text equips the reader with up to date knowledge of clinical practice for the respiratory system lung diseases within critical care medicine and the impact of critical illness on lung biology Each chapter highlights advances in the field as well as emphasising the importance of getting the basics right Key messages controversies and directions to further research points allow both focused reading and deeper engagement A dedicated chapter to COVID 19 and sections throughout explore the impact of this novel virus in specific areas of respiratory critical care Edited and written by an international group of recognized experts from many disciplines this essential textbook is relevant to medics globally This is an indispensable guide for clinicians researchers and nurses working in Critical Care Anaesthesia Respiratory Medicine Acute Medicine and Emergency Medicine

The Cystic Fibrosis Transmembrane Conductance Regulator Kevin L. Kirk, David C. Dawson, 2003-10-31 The CFTR chloride channel is one of the most well studied transport proteins in biology Yet there remain many mysteries about the functional properties and biological roles of this ABC transporter The Cystic Fibrosis Transmembrane Conductance Regulator addresses a select series of hot topics that relate to the function of CFTR and the links between CFTR dysfunction and human disease i e cystic fibrosis The timeliness of these topics distinguishes this collection from previous volumes of this type Given the general interest in CFTR this collection will appeal

to a broad readership with interests in CFTR cystic fibrosis ion channels and ABC transporters **Physiologic Basis of Respiratory Disease** Qutayba Hamid, 2005 Accompanying CD ROM contains the complete text and illustrations in fully searchable PDF files Page 4 of cover **Diagnostic and Interventional Bronchoscopy in Children** Samuel

Goldfarb, Joseph Piccione, 2020-11-28 Collaboratively authored by international experts and innovators this book serves as a comprehensive introduction to flexible bronchoscopy in children a guide to normal and abnormal bronchoscopy findings and as the first pediatric bronchoscopy text to describe the array of innovative technologies now being utilized in advanced diagnostic and interventional bronchoscopy programs Flexible bronchoscopy is a core clinical service provided by academic pediatric pulmonary medicine programs and a critical skill that trainees are expected to develop The role of flexible bronchoscopy in the care of children with disorders of the respiratory tract has evolved rapidly over the past decade due to technological advances in diagnostic and therapeutic instruments While many of these tools were designed for adult patients pediatric pulmonologists have adapted them to meet the unique needs of children The book is organized into three sections the history and fundamentals of flexible bronchoscopy the role of flexible bronchoscopy in evaluation of pediatric respiratory tract disorders and advanced diagnostic and interventional bronchoscopy Throughout images and videos enhance the text and provide invaluable perspective This is an ideal guide for practicing pediatric pulmonologists and trainees and will also prove useful to pediatric anesthesiologists intensivists otolaryngologists and respiratory therapists *The regulated*

secretory pathway in neuroendocrine cells Rafael Vazquez-Martinez, Stéphane Gasman, 2014-08-06 The regulated secretory pathway is a hallmark of neuroendocrine cells This process comprises many sequential steps which include ER associated protein synthesis post translational modification of proteins in the Golgi complex sorting and packing of secretory proteins into carrier granules cytoskeleton based granule transport towards the plasma membrane and tethering docking and fusion of granules with specialized releasing zones Each stage is subjected to a rigorous regulation by a plethora of factors that function in a spatially and temporally coordinated fashion Much effort has been devoted to characterize the precise role of the regulatory proteins participating in the different steps of this process and to identify new factors in order to obtain a unifying picture of the secretory pathway In spite of this and given the enormous complexity of the process certain stages are not fully understood yet and many players remain to be identified The aim of this Research Topic is to gather review articles and original research papers on the molecular mechanisms that govern and ensure the correct release of neuropeptides

Environmental Health Perspectives , 1993 **Macrolides as Immunomodulatory Agents** Bruce K.

Rubin, Masaharu Shinkai, 2024-01-04 For over 50 years clinicians have known that macrolide antibiotics have effects on inflammation and the immune system that are not related to their antimicrobial properties These immunomodulatory properties best described for treating inflammatory airway diseases protect the lung and the host and improve clinical status This book summarizes our current knowledge regarding proposed mechanisms for these properties established clinical

results and what the future may hold with emphasis on novel clinical applications and the fascinating development of non antimicrobial macrolides with preserved and enhanced immunomodulatory properties

Rau's Respiratory Care

Pharmacology E-Book Douglas S. Gardenhire, 2023-05-12 Selected for Doody's Core Titles 2024 in Respiratory Therapy You can breathe a little easier knowing there's a proven way to master respiratory pharmacology For more than 30 years Rau's Respiratory Care Pharmacology has been the preeminent text on the subject With easy to grasp terminology relatable explanations and reader friendly writing it simplifies the process of learning pharmacology material like never before Rau's is organized into three logical sections covering the basics of respiratory care frequently used drugs and critical care medications New to the 11th edition are recently approved FDA drugs information on drug approvals COVID 19 coverage and new and updated Clinical Connection boxes that focus on important clinical questions assisting you in connecting the information in the text to the clinical setting and addressing how Respiratory Therapists can help educate patients Clinical scenarios with follow up SOAP assessment help you assess your comprehension of the material Self assessment questions offer you thought provoking opportunities to test your comprehension of key concepts Learning objectives parallel the levels tested by the NBRC exams to help you identify important information that goes beyond memorization and recall Key terms with definitions provide easy access to the pharmacologic vocabulary you should embrace Key points boxes in each chapter highlight important concepts in the lesson Glossary of all key terms in the text aids you in understanding the terminology associated with respiratory care pharmacology Appendices on common Units and Systems of Measurement and Acceptable Mixtures provide references to need to know information such as abbreviations conversion charts for temperatures liquid metric and solids and a simple drug compatibility chart for drug mixtures Alphabetical drug index provides a direct index to look up information based on drug name NEW and UPDATED Clinical Connection boxes assist you in connecting information in the text to the clinical setting including providing patients a better understanding of their clinical conditions as related to their drug treatments UPDATED Chapter 1 reflects changes to drug approval UPDATED Chapter 3 reflects changes in aerosol medication devices and addresses aerosol generating device issues and COVID 19 UPDATED The latest FDA approved medications are referenced in all chapters UPDATED Current asthma GINA and COPD GOLD guidelines include COVID 19 treatment protocols Enhanced readability helps you more easily understand difficult material

Allergy and Allergic Diseases A. Barry Kay, Jean Bousquet, Patrick G. Holt, Allen P. Kaplan, 2009-01-26 Reserve your copy now This two volume book is an outstanding reference source on all aspects of allergy and allergic diseases Covering virtually every allergic condition from the immunological and molecular basis of the allergic response to future trends in allergic disease prevention this new international editorial team A B Kay Jean Bousquet Pat Holt and Allen Kaplan have completely revised and updated the text from both a scientific and clinical perspective References will continue to be added to the text until it goes to press making this the most up to date book available in the field This second edition consists of more than 1 800 pages

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