

METABOLIC FUNCTIONS OF THE LUNG

Charl de Wet, MBChB, and Jonathan Moss, MD, PhD

The lung, by virtue of its anatomy and position, is uniquely designed to facilitate exchange of oxygen and waste gases. Although the metabolic functions of the lung have been appreciated for more than 70 years, these same characteristics make it an important organ in the processing of biologic compounds and drugs. In 1925, Starling and Verney¹ reported that only when the lungs were included in the circuit could an isolated kidney be perfused adequately. Without the lungs in the circuit, defibrinated blood reaching the kidney caused the vessels to constrict. They concluded that the blood was "detoxicated" in the lungs. In 1948, the vasoconstrictor was identified as serotonin (5-HT).² However, it was not until 1953 that Gaddum et al³ confirmed that 5-HT was metabolized in the lung.

It was subsequently proposed that an important function of the lung is to serve as a chemical filter, protecting the systemic circulation from exposure to high levels of circulating vasoactive compounds^{12, 26, 28, 31, 37, 38, 39, 40, 48} and regulating systemic arterial concentrations of exogenous substances. Because of its ultrastructure and position in the circulation, the lung is uniquely suited for this role. The lung receives the total cardiac output, as opposed to other organs that receive only fractional output. In the lung, the circulating blood is exposed to the largest capillary endothelial surface in the body (70 square meters). These two factors combine to make the lung an effective biochemical filter. With a cardiac output of 5 L/min and 30% removal of a substance, pulmonary clearance is 1.5 L/min (5×0.3). Although the liver is often perceived to be the primary metabolic organ, the maximal clearance of a substance completely metabolized by the liver reflects resting hepatic blood flow (i.e., 1.6 L/min).³⁸

Initial studies of 5-HT suggested that the lungs were capable of removing or inactivating toxic substances as they traversed the pulmonary circulation. Subsequent research has established a more complex role for this organ. Some

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Metabolic Functions Of The Lung

JL Elias



Metabolic Functions Of The Lung:

Metabolic Functions of the Lung Y. S. Bakhle, John R. Vane, 1977 *Respiratory Physiology* John Burnard West, 2008

Widely considered the gold standard textbook for respiratory physiology this compact concise and easy to read text is now in its fully updated Eighth Edition New student friendly features include Key Points boxes at the end of each chapter and review questions and answers A companion Website will offer the fully searchable text plus animations that illustrate difficult physiologic concepts **Pulmonary Physiology** Michael G. Levitzky, 2003 A solid background in the aspects of pulmonary physiology essential for clinical medicine is provided in this study The book identifies concepts to foster understanding and provides encouragement for learning objectives with study questions *Chest Medicine* Ronald B. George, 2005 A favorite among residents and pulmonary fellows this text provides all the information needed to evaluate and manage respiratory diseases and critically ill patients and to pass the American Board of Internal Medicine's subspecialty exam in pulmonary medicine The Fifth Edition includes new information on ARDS sedation of critically ill patients rehabilitation for COPD care of elderly patients genetic testing for asthma CTA and other diagnostic techniques for pulmonary thromboembolism new antifungal drugs without renal toxicity new treatment guidelines for pneumothorax and ventilators and noninvasive ventilation for respiratory failure This edition also includes more algorithms and differential diagnosis tables **Metabolic Functions of the Lungs**, 1989 **Biologic Markers in Pulmonary Toxicology** National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on Biologic Markers, 1989-02-01 Biologic markers indicators of biological exposure or change offer the promise of early detection of disease caused by environmental exposure Researchers have used these markers to discover indications of pulmonary damage from low level ozone a finding with serious implications for health professionals and environmental regulators Biologic Markers in Pulmonary Toxicology is a comprehensive study of this use of biologic markers Focusing on the respiratory tract as an entryway for airborne pollutants this volume reviews new ways of measuring markers the need for markers to indicate dose or exposure levels noninvasive respiratory function tests for use with healthy humans to detect sensitivity to inhaled pollutants approaches to evaluating markers down to the cellular and biochemical levels and more **Kendig and Wilmott's Disorders of the Respiratory Tract in Children - E-Book** Andrew Bush, Robin R Deterding, Albert Li, Felix Ratjen, Peter Sly, Heather Zar, Robert W. Wilmott, 2023-08-21 Extensively revised from cover to cover Kendig and Wilmott's Disorders of the Respiratory Tract in Children 10th Edition continues to be your 1 choice for reliable up to date information on all aspects of pediatric respiratory disorders This highly respected reference is accessible to specialists and primary care providers alike with coverage of both common and less common respiratory problems found in the newborn and child Detailed and thorough this edition covers basic science and its relevance to today's clinical issues as well as treatment management and outcomes information making it an ideal resource for day to day practice as well as certification or recertification review and other professional

examinations such as pHERMES Offers an international perspective on the whole spectrum of the specialty including a robust video library with demonstrations of key procedures and bronchoscopic views Uses a consistent format with succinct bulleted text and contains abundant tables and figures chapter summaries and more than 500 full color images to convey key information in an easy to digest manner Contains eleven new chapters and discusses timely topics such as big data and omics in respiratory disease COVID 19 obesity and its consequences and vaping and nicotine addiction among children and young people Provides up to date instruction on key procedures such as bronchoscopy and pulmonary function testing Highlights the knowledge and expertise of nearly 90 new authors who are global experts in the fields of pediatrics pulmonology neurology microbiology cardiology physiology diagnostic imaging critical care otolaryngology allergy and surgery

Textbook of Medical Physiology 4th Edition - E-Book G K Pal,2021-12-21 Textbook of Medical Physiology 4th Edition E Book **The Normal Lung** John Frederic Murray,1986 **Metabolic Functions of the Lungs** ,1989 **Metabolic Activities of the Lung** ,1980 *Pulmonary Physiology 8/E* Michael Levitzky,2013-03-15 The best review of pulmonary physiology for the USMLE Step 1 For more than three decades Pulmonary Physiology has provided medical students and residents with a solid background in the areas of pulmonary physiology essential for a thorough understanding of clinical medicine Pulmonary Physiology 8e teaches you how and why the human respiratory system works in a style and presentation that makes it easy to absorb and integrate with your knowledge of other body systems Features Every chapter includes learning objectives summaries of key concepts study questions clinical examples illustrations of essential concepts and suggested readings Provides detailed explanations of physiologic mechanisms and demonstrates how they apply to pathologic states Helps you to understand the basic concepts of pulmonary physiology well enough to apply them with confidence to future patients Delivers concise yet in depth coverage of every important topic including Function and Structure of the Respiratory System Mechanics of Breathing Alveolar Ventilation Blood Flow to the Lungs Ventilation Perfusion Relationships Diffusion of Gases and Interpretation of Pulmonary Function Tests Transport of Oxygen and Carbon Dioxide in the Blood Acid Base Balance Control of Breathing Nonrespiratory Functions of the Lung The Respiratory System Under Stress including exercise altitude diving and sleep *Comprehensive Textbook of Medical Physiology - Two Volume Set* GK Pal,Parvati Pal,Nivedita Nanda,2016-10-31 Two volume set a complete guide to medical physiology for undergraduate medical students Covers both clinical and applied physiology of all anatomical systems Includes numerous photographs and invaluable learning tools Clinical Physiology and Biochemistry ,1985 **Federation Proceedings** Federation of American Societies for Experimental Biology,1985 *The Endocrine Lung in Health & Disease* Kenneth L. Becker,Adi F. Gazdar,1984 **Pathophysiology** Edward D. Frohlich,1984 *Physiological Measurements with Radionuclides in Clinical Practice* A. Michael Peters,Melvyn Myers,1998 As functional imaging becomes increasingly important in radiology practitioners in a wide range of disciplines need to understand more about the quantitative aspects of physiology and pathophysiology In

straightforward language this book integrates the principles and mathematics of measurements with physiological systems to which the quantitative problems are applied Although there is an emphasis on clinical management with radionuclides and quantitative procedures in nuclear medicine this book has been written with all practitioners in mind and also therefore embraces techniques based on non radioactive indicators including contrast agents used in CT MRI and ultrasound Starting from basic mathematics the book describes the measurement of fundamental physiological variables like transit time clearance and blood flow and goes on to cover the peripheral circulation and microvascular solute transfer the pharmacokinetics of agents routinely used in nuclear medicine as well as scintillation detectors data processing and quantification In separate chapters measurements in the heart lung gastrointestinal tract liver blood genitourinary tract brain and skeleton are discussed and the book finishes with a chapter on questions and worked answers

Respiratory Physiology ,1981 **Cardiopulmonary Bypass** Kaan Kirali,Joseph S. Coselli,Afksendiyos Kalangos,2022-11-30

Cardiopulmonary Bypass Advancements in Extracorporeal Life Support provides comprehensive coverage on the technological developments and clinical applications of extracorporeal technologies including the underlying basic science and the latest clinical advances in the field Written by experts around the world this book comprises all characteristics of cardiopulmonary bypass as well as chapters regarding equipment physiology and pathology pediatric aspects and clinical applications Important highlights include the latest updates regarding minimal invasive cardiopulmonary bypass MICPB extracorporeal circulatory and respiratory support ECCRS in cardiac and non cardiac patients ECMO support in COVID 19 and updated guidelines of extracorporeal technologies This book is an invaluable resource to clinicians researchers and medical students in the fields of cardiothoracic surgery cardiac anesthesiology intensive care and perfusion technology Offers comprehensive and cutting edge knowledge of cardiopulmonary bypass and extracorporeal life support during surgery and non surgical situations Discusses basic science principles along with practical clinical applications Includes content from authors who are well known experts in the field and whose authoritative contributions are invaluable for early career and experienced practitioners alike

The Enigmatic Realm of **Metabolic Functions Of The Lung**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Metabolic Functions Of The Lung** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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