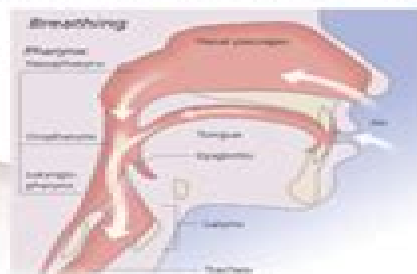
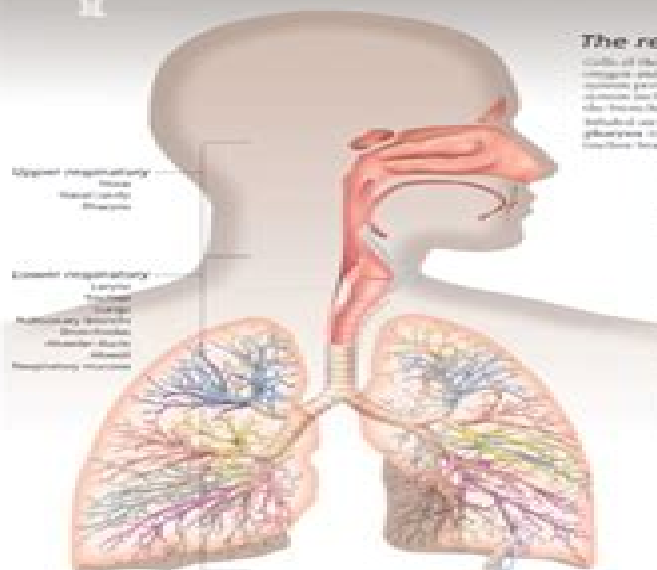




Respiration & Gas Exchange

The respiratory system

Cells of the body get energy through aerobic metabolism, a process that uses oxygen and produces carbon dioxide as a waste product. The respiratory system provides the means for exchanging these gases at the cellular level. The system includes the nose and mouth passages, the pharynx, larynx and trachea, the bronchi and the lungs. Inspired air entering through the nasal cavity or mouth, flows through the pharynx (throat) and the larynx (voice box) to the trachea (windpipe). The trachea branches into two bronchi, which carry air into each of the lungs.



Through breathing, our respiratory system provides the needed oxygen and expels the carbon dioxide we need to eliminate. It completely breathes in (inspiration) and breathes out (expiration).

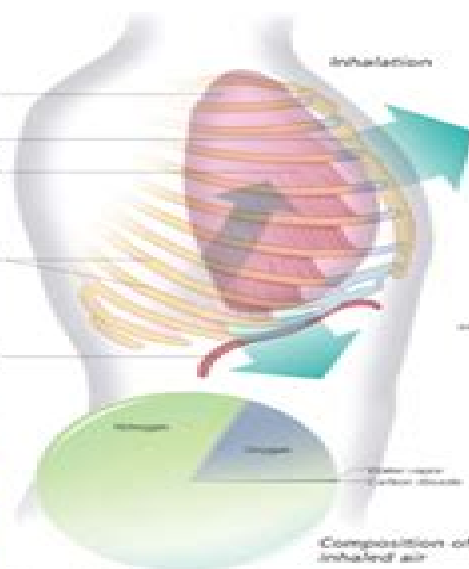
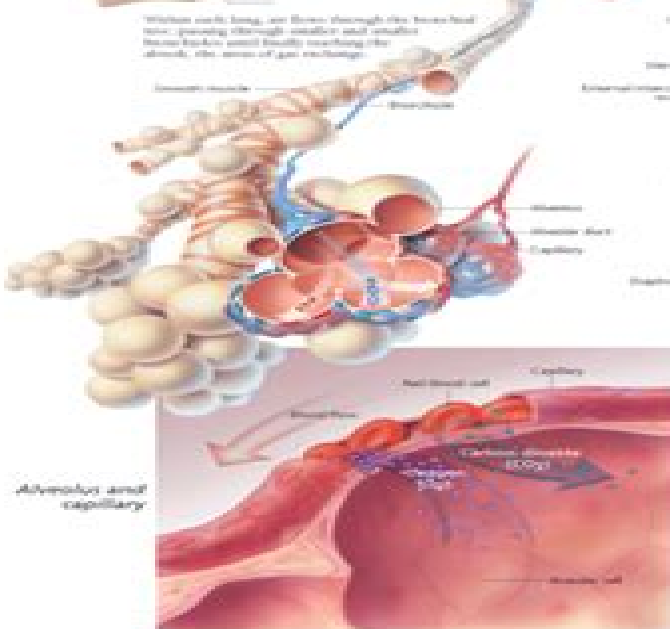
A normal adult inhales about 14 pints of air per minute while awake and about 10 pints per minute while asleep. During exercise or under unusual situations, the body's demand for oxygen increases and the rate of breathing increases.

Total lung capacity



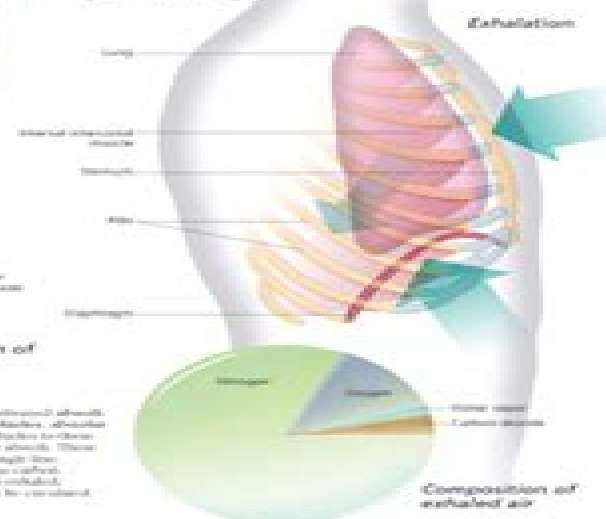
Lung volumes

During normal inspiration, the amount of air breathed in and out is called **tidal volume**. The additional amount of air that can be forcibly inhaled (just a normal inhalation) is the **inspiratory reserve volume**. The additional amount of air that can be forcibly exhaled (just a normal exhalation) is the **expiratory reserve volume**. Together the **inspiratory reserve volume** and the **expiratory reserve volume** make up the **total capacity**. Exhaling all the air in our lungs would create a vacuum, so when we breathe in the lungs, this air is called **residual volume**. Adding the residual volume to the tidal capacity gives us the **total lung capacity** (about 120 pints).



The mechanics of breathing

During inhalation, the diaphragm contracts down in a convexity, and the external intercostal muscles lift or draw up the ribs outward. These actions increase the volume of the chest cavity. A partial vacuum is created by the additional space, and air is drawn in to equalize the pressure. During exhalation, the external intercostal muscles relax, returning the chest cavity. The lungs passively expand and air is pushed out of the lungs.



Gas exchange

Gas exchange occurs in the more than 100 million tiny thin-walled alveoli within the lungs. These alveoli are along the respiratory bronchioles, alveolar ducts and alveolar sacs. Inspired air is carried through the bronchioles to these alveoli. Blood is carried in the capillaries that wrap around all the alveoli. These capillaries are so narrow that blood cells must pass through at a single file. Oxygen (O_2) diffuses across the alveolar wall into the blood cells to carbon dioxide (CO_2) diffuses from the blood into the alveoli. The CO_2 is exhaled. The newly oxygenated blood travels from the lungs to the heart to be circulated throughout the body.

Regulation Of Ventilation And Gas Exchange

**Karl H. E. Kroemer, Hiltrud J.
Kroemer, Katrin E. Kroemer-Elbert**

Regulation Of Ventilation And Gas Exchange:

Anatomy & Physiology Lindsay Biga, Devon Quick, Sierra Dawson, Amy Harwell, Robin Hopkins, Joel Kaufmann, Mike LeMaster, Philip Matern, Katie Morrison-Graham, Jon Runyeon, 2019-09-26 A version of the OpenStax text *Regulation of Tissue Oxygenation, Second Edition* Roland N. Pittman, 2016-08-18 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 PO₂ 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 PO₂ 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 Regulation of Ventilation and Gas Exchange Donald Davies, 2012-12-02 Regulation of Ventilation and Gas Exchange is a comprehensive account of the regulation of ventilation and gas exchange Topics covered include central nervous system regulation of ventilation ventilatory response to muscular exercise respiratory control in air breathing ectotherms and breathing during sleep Hydrogen ion homeostasis of the cerebral extracellular fluid is also discussed along with specific mechanisms for O₂ and CO transport in the lung and placenta Comprised of nine chapters this book begins with an overview of the neural elements that modify and or are intrinsic to the respiratory rhythm The next two chapters deal with the contribution of metabolic factors in the control of ventilation paying particular attention to the importance of metabolic factors during muscular exercise and the specific role of ammonia in the regulation of respiration A view of ventilatory control from a comparative standpoint stressing both adaptive and mechanistic phenomena is then presented Subsequent chapters explore the regulation of breathing during sleep regulation of cerebral extracellular fluid acid base composition and its role in the control of ventilation and cerebral blood flow carrier mediated transport of respiratory gases and measurement of ventilation perfusion ratios is presented The last chapter considers lung surfactant mechanics and addresses issues such as in vitro vs in situ measurements of surface tension and the effects of surface tension on pulmonary vascular resistance and interstitial pressure This monograph is

designed not only for respiratory physiologists but also for students and researchers in other areas with an inclination toward respiratory physiology *Basic Physiology for Anaesthetists* David Chambers, Christopher Huang, Gareth Matthews, 2019-07-25 Every trainee in anaesthesia requires a thorough understanding of basic physiology and its application to clinical practice Now in its second edition this comprehensively illustrated textbook bridges the gap between medical school and reference scientific texts It covers the physiology requirements of the Primary FRCA examination syllabus Chapters are organised by organ system with particular emphasis given to the respiratory cardiovascular and nervous systems The practical question and answer format helps the reader prepare for oral examinations while clinical relevance boxes translate the physiological concepts to clinical practice This new edition has been thoroughly updated and revised throughout and includes six new chapters including the physiology of the eye upper airway and exercise testing It provides junior anaesthetists with an essential one stop physiology resource **Regulation of Breathing** Thomas F. Hornbein, 1981

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Handbook of Blood Gas/Acid-Base Interpretation Ashfaq Hasan, 2013-04-20 *Handbook of Blood Gas Acid Base Interpretation* 2nd edition simplifies concepts in blood gas acid base interpretation and explains in an algorithmic fashion the physiological processes for managing respiratory and metabolic disorders With this handbook medical students residents nurses and practitioners of respiratory and intensive care will find it possible to quickly grasp the principles underlying respiratory and acid base physiology and apply them Uniquely set out in the form of flow diagrams algorithms charts this handbook introduces concepts in a logically organized sequence and gradually builds upon them The treatment of the subject in this format describing processes in logical steps makes it easy for the reader to cover a difficult and sometimes dreaded subject rapidly *Diving Medicine* Olaf Rusoke-Dierich, 2018-08-27 This book is the very first to cover the

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structure function correlation **Fetal and Neonatal Lung Development** Alan H. Jobe, Jeffrey A. Whitsett, Steven H. Abman, 2016-04-18 Lung disease affects more than 600 million people worldwide While some of these lung diseases have an obvious developmental component there is growing appreciation that processes and pathways critical for normal lung development are also important for postnatal tissue homeostasis and are dysregulated in lung disease This book provides an authoritative review of fetal and neonatal lung development and is designed to provide a diverse group of scientists spanning the basic to clinical research spectrum with the latest developments on the cellular and molecular mechanisms of normal lung development and injury repair processes and how they are dysregulated in disease The book covers genetics omics and systems biology as well as new imaging techniques that are transforming studies of lung development The reader will learn where the field of lung development has been where it is presently and where it is going in order to improve outcomes for patients with common and rare lung diseases **Pediatric and Neonatal Mechanical Ventilation** Peter C. Rimensberger, 2014-11-12 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 **Medical Physiology : The Big Picture** Jonathan D. Kibble, Colby R. Halsey, 2008-12-07 Get the BIG PICTURE of Medical Physiology and focus on what you really need to know to ace the course and board exams 4 Star Doody's Review This excellent no frills approach to physiology concepts is designed to help medical students and other health professions students review the basic concepts associated with physiology for the medical profession The information is concise accurate and timely If you don't have unlimited study time Medical Physiology The Big Picture is exactly what you need With an emphasis on what you need to know versus what's nice to know and enhanced with 450 full color illustrations it offers a focused streamlined overview of medical physiology You'll find a succinct user friendly presentation designed to make even the most complex concepts understandable in a short amount of time With just the right balance of information to give you the edge at exam time this unique combination text and atlas features A Big Picture perspective on precisely what you must know to ace your course work and board exams Coverage of all the essential areas of Physiology including General Neurophysiology Blood Cardiovascular Pulmonary Renal and Acid Base Gastrointestinal and Reproductive 450 labeled and explained full color illustrations 190 board exam style questions and answers including a

complete practice test at the end of the book Special icon highlights important clinical information A Graphical Analysis of the Respiratory Gas Exchange Hermann Rahn,Wallace O. Fenn,1962 *Neuroscience in the 21st Century* Donald W. Pfaff,Nora D. Volkow,2016-10-27 Edited and authored by a wealth of international experts in neuroscience and related disciplines this key new resource aims to offer medical students and graduate researchers around the world a comprehensive introduction and overview of modern neuroscience Neuroscience research is certain to prove a vital element in combating mental illness in its various incarnations a strategic battleground in the future of medicine as the prevalence of mental disorders is becoming better understood each year Hundreds of millions of people worldwide are affected by mental behavioral neurological and substance use disorders The World Health Organization estimated in 2002 that 154 million people globally suffer from depression and 25 million people from schizophrenia 91 million people are affected by alcohol use disorders and 15 million by drug use disorders A more recent WHO report shows that 50 million people suffer from epilepsy and 24 million from Alzheimer s and other dementias Because neuroscience takes the etiology of disease the complex interplay between biological psychological and sociocultural factors as its object of inquiry it is increasingly valuable in understanding an array of medical conditions A recent report by the United States Surgeon General cites several such diseases schizophrenia bipolar disorder early onset depression autism attention deficit hyperactivity disorder anorexia nervosa and panic disorder among many others Not only is this volume a boon to those wishing to understand the future of neuroscience it also aims to encourage the initiation of neuroscience programs in developing countries featuring as it does an appendix full of advice on how to develop such programs With broad coverage of both basic science and clinical issues comprising around 150 chapters from a diversity of international authors and including complementary video components Neuroscience in the 21st Century in its second edition serves as a comprehensive resource to students and researchers alike

Concepts of Biology Samantha Fowler,Rebecca Roush,James Wise,2023-05-12 Black white print Concepts of Biology is designed for the typical introductory biology course for nonmajors covering standard scope and sequence requirements The text includes interesting applications and conveys the major themes of biology with content that is meaningful and easy to understand The book is designed to demonstrate biology concepts and to promote scientific literacy Metabolism of Human Diseases Eckhard Lammert,Martin Zeeb,2014-06-24 Metabolism of Human Diseases examines the physiology of key organs e g brain eye lung heart blood vessels blood immune system gastrointestinal tract pancreas liver fat tissue kidney reproductive system teeth bone and joints and how defective metabolism and signaling pathways within these organs contribute to common human diseases The latter include depression schizophrenia epilepsy Parkinson s disease Alzheimer s disease migraine multiple sclerosis Down syndrome macular degeneration glaucoma asthma COPD pneumonia atherosclerotic heart disease heart failure stroke varicose veins Sick cell disease hyperlipidemia fever sepsis allergies peptic ulcer gastroenteritis lactose intolerance colon cancer diabetes cirrhosis metabolic syndrome hypertension chronic

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