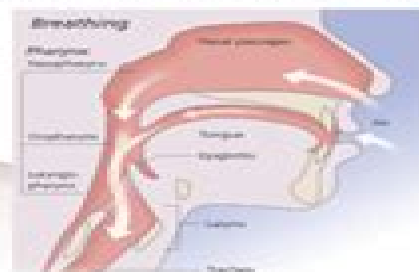
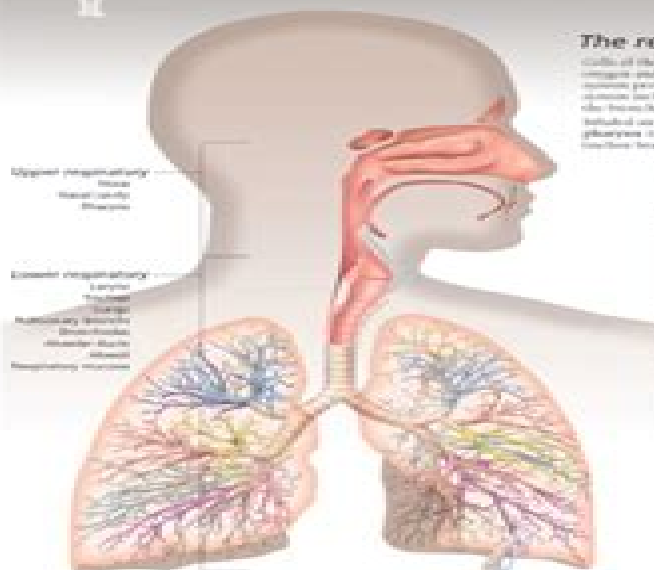




Respiration & Gas Exchange

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 (taking in air) and breathes out (expelling air).

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

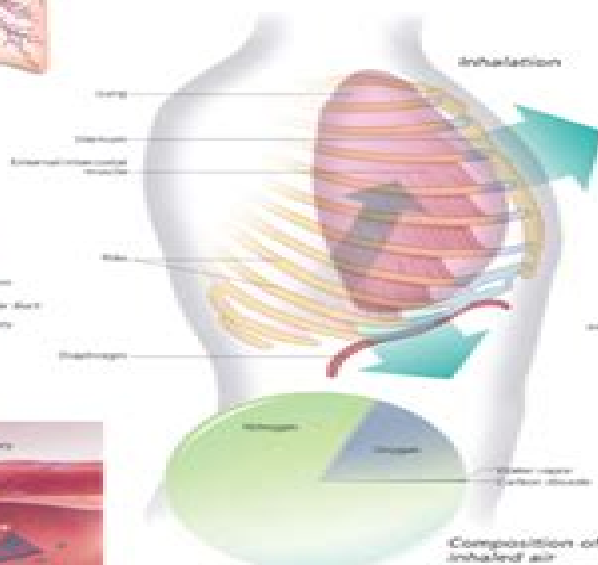


Lung volumes

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 volume gives us the **total lung capacity** (about 120 pints).

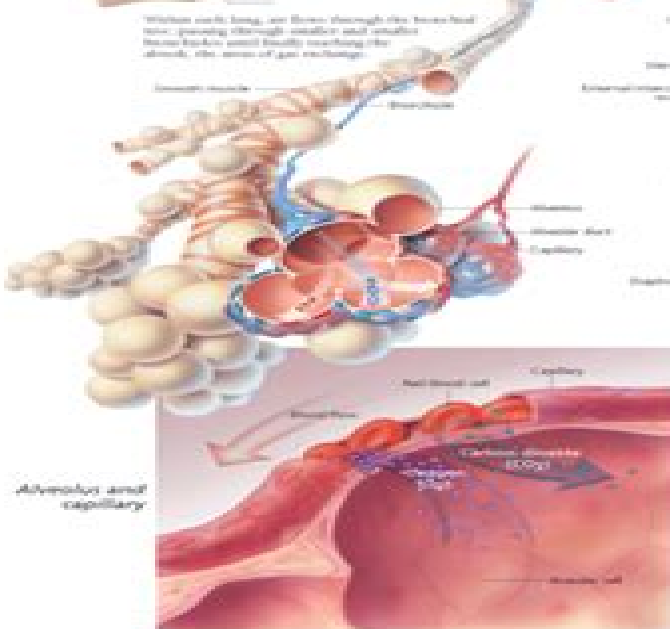
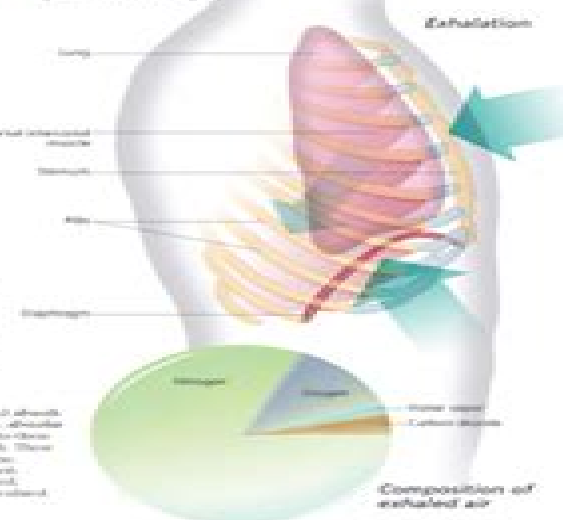
The mechanics of breathing

During inhalation, the diaphragm moves down and contracts, and the external intercostal muscles lift and draw up the rib cage. 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.



Respiratory Physiology

John B West



Respiratory Physiology:

Respiratory Physiology John Burnard West, 2012 Widely considered the gold standard for the teaching and learning of respiratory physiology this fully updated Ninth Edition includes key points for each chapter and multiple choice review questions and answers with full explanations Available online via thePoint animations help to clarify particularly difficult concepts and provide a visual component for use during instruction or review NEW Presents rationales for all questions as well as explanations for each answer choice Provides 82 essential to know multiple choice review questions which appear at the end of each chapter Features an Appendix of important equations Supports learning through chapter opening learning objectives and introductory material as well as Key Concepts summaries at the end of each chapter Includes online resources such as question bank animations and full text for students Includes animations online 8 in total via thePoint to illustrate particularly challenging concepts Respiratory Physiology Allan H. Mines, 1986 *Respiratory Physiology* Richard M. Schwartzstein, Michael J. Parker, 2006 Covering respiratory physiology this is one in a series of texts which takes a fresh unique approach to learning physiology in a systems based curriculum Each chapter includes clinical correlations as well as questions that test students ability to integrate information **West's Respiratory Physiology** John B. West, Andrew M. Luks, 2020-09-10 For more than 40 years West's Respiratory Physiology The Essentials has remained a critical resource for medical and allied health students learning the basics of respiratory physiology as well as an effective quick review for residents and fellows in pulmonary medicine critical care anesthesiology and internal medicine as they prepare for licensing and other exams The eleventh edition incorporates updates in many areas including blood tissue gas exchange mechanics control of ventilation and the respiratory system under stress all designed to aid clear understanding of pulmonary physiology *Respiratory Physiology* N. Balfour Slonim, John L. Chapin, 1967 *Physiology of Respiration* Michael P. Hlastala, Albert J. Berger, 2001-03-08 This lucid well illustrated textbook presents the basic physiological principles governing the function of the respiratory system It was developed as a working text with problem solving exercises many lucid drawings simple mathematical development and clinical correlations The book's scope is comprehensive covering pulmonary anatomy and microstructure mechanics gas exchange neural control and integrative aspects of respiration **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 *Paediatric Pulmonary Function Testing* Jürg Hammer, Ernst Eber, 2005-01-01 This book represents a comprehensive review of the most recent developments in paediatric pulmonary function testing and their clinical applications in common paediatric respiratory disorders The first section reviews the current lung function tests used in infants and toddlers who are by nature unable to cooperate with most testing procedures It describes the methodologies provides normal values where available and gives advice for data interpretation The second section deals with

the classic adult type pulmonary function tests and their application in the semi cooperative or cooperative Respiratory Physiology John B West, 2013-05-27 Present day respiratory physiology stems largely from the explosion of ideas which took place during and after World War II A number of the major players are still active but the opportunity to prepare a personal history of this branch of medicine will soon be lost In a sense then this book offers an exceptional even unique opportunity We are offered a first hand chronicle of the advancements made in respiratory physiology in the course of this century by one of the principal figures in the field The volume covers every aspect of the evolution of this important area of knowledge morphology gas exchange and blood flow mechanics control of ventilation and comparative physiology Some of the chapters are personal accounts of the development of respiratory physiology as observed by the author It is hoped that what is lost in objectivity by this approach is more than made up by the captivating insights provided by the author into the process of scientific research and discovery **Principles of Comparative Respiratory Physiology** Pierre Dejours, 1981 *The Mouse in Biomedical Research*, 2006-12-15 Normative Biology Husbandry and Models the third volume in the four volume set *The Mouse in Biomedical Research* encompasses 23 chapters whose contents provide a broad overview on the laboratory mouse s normative biology husbandry and its use as a model in biomedical research This consists of chapters on behavior physiology reproductive physiology anatomy endocrinology hematology and clinical chemistry Other chapters cover management as well as nutrition gnotobiotics and disease surveillance There are also individual chapters describing the mouse as a model for the study of aging eye research neurodegenerative diseases convulsive disorders diabetes and cardiovascular and skin diseases Chapters on imaging techniques and the use of the mouse in assays of biological products are also included Respiratory Physiology Alan R. Leff, Paul T. Schumacker, 1993 Includes cortica **Respiratory Physiology** Michelle M. Cloutier, 2018-09-03 Gain a foundational understanding of respiratory physiology and how the respiratory system functions in health and disease *Respiratory Physiology* a volume in the Mosby Physiology Series explains the fundamentals of this complex subject in a clear and concise manner while helping you bridge the gap between normal function and disease with pathophysiology content throughout the book Helps you easily master the material in a systems based curriculum with learning objectives Clinical Concept boxes highlighted key words and concepts chapter summaries self study questions and a comprehensive exam Keeps you current with recent advances in respiratory physiology and includes a new chapter on new and emerging aspects of the lung Includes nearly 150 clear 2 color diagrams that simplify complex concepts Features clinical commentaries that show you how to apply what you ve learned to real life clinical situations Complete the Mosby Physiology Series Systems based and portable these titles are ideal for integrated programs Blaustein Kao Matteson *Cellular Physiology and Neurophysiology* Johnson *Gastrointestinal Physiology* Koeppen Stanton *Renal Physiology* Pappano Weir *Cardiovascular Physiology* White Harrison Mehlmann *Endocrine and Reproductive Physiology* Hudnall *Hematology A Pathophysiologic Approach* New chapter on New and Emerging Aspects of the Lung Add

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