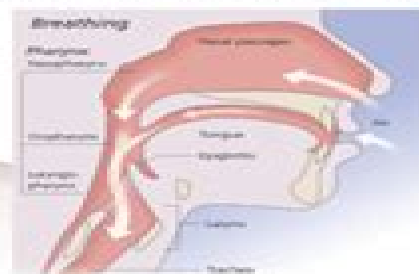
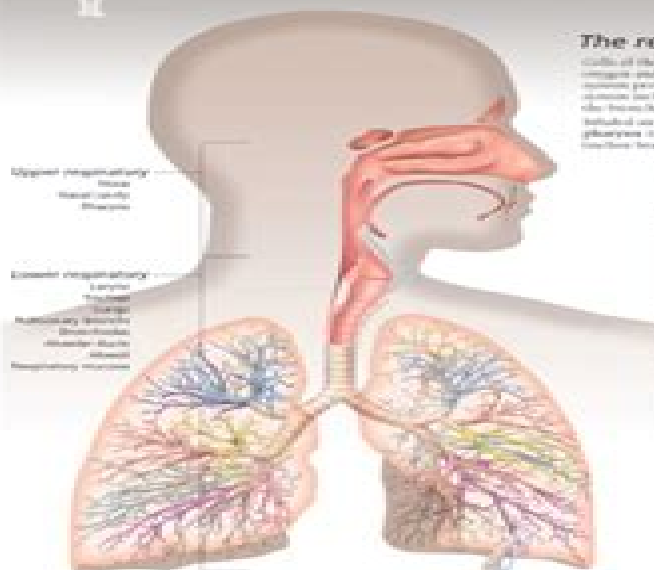




Respiration & Gas Exchange

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

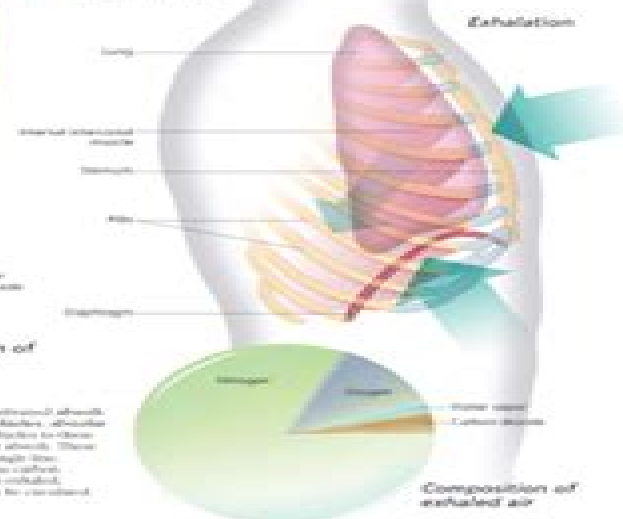
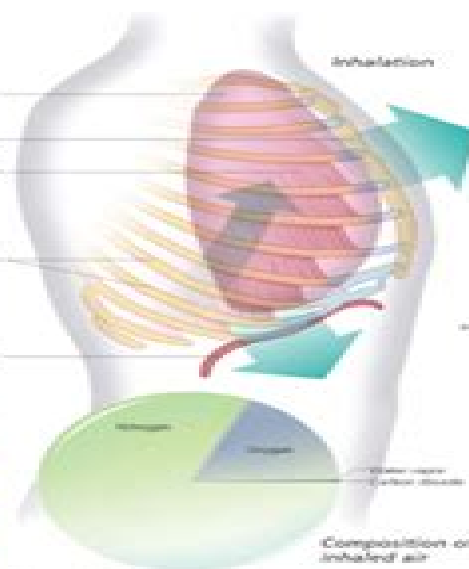


Lung volumes

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

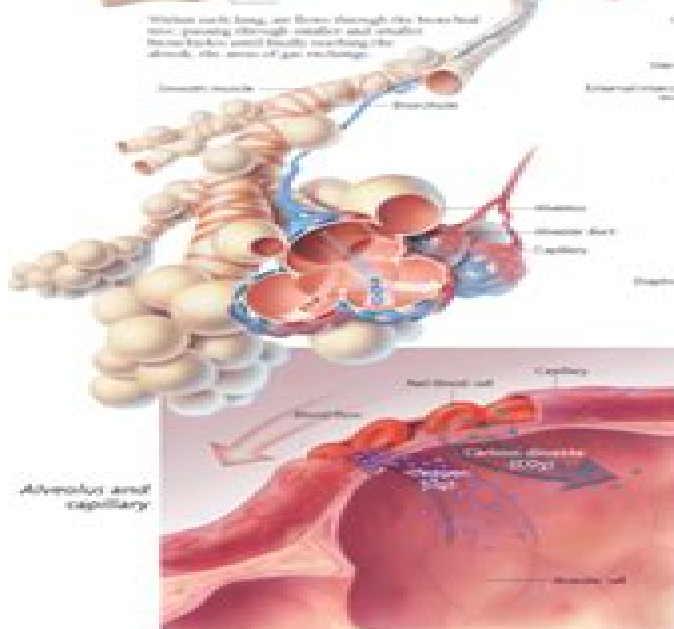
The mechanics of breathing

During inhalation, the diaphragm moves down and contracts, and the external intercostal muscles lift and draw out 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 capillaries. 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

National Heart and Lung Institute

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the National Heart and Lung Institute text.

Regulation Of Ventilation And Gas Exchange:

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

Physiological Strategies for Gas Exchange and Metabolism A. J. Woakes, M. K. Grieshaber, C. R. Bridges, 1991-03-28 This 1991 book reviews the various metabolic and functional mechanisms that animals possess in order to live successfully in their own particular often unique environments It demonstrates both the diversity of responses that are shown and the underlying principles of gas exchange and transport for a wide range of organisms

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Vertebrate Gas Exchange Robert G. Boutilier,2012-12-06 The structural and chemical limitations to respiratory gas exchange existing between the ambient medium and the cell are comprehensively treated Beginning with an examination of the natural oscillations of respiratory gases in both terrestrial and aquatic environments Vertebrate Gas Exchange details the structures involved in convecting the medium air or water the morphometrics of capillary gas transfers and gas transfer kinetics Important features include details on measurement techniques associated with tissue capillary supply and gas exchange kinetics

Circulation, Respiration, and Metabolism Raymond Gilles,2012-12-06 This volume is one of those published from the proceedings of the invited lectures to the First International Congress of Comparative Physiology and Biochemistry I organized at Liege Belgium in August 1984 under the auspices of the Section of Comparative Physiology and Biochemistry of the International Union of Biological Sciences In a general foreword to these different volumes it seems to me appropriate to consider briefly what may be the comparative approach Living organisms beyond the diversity of their morphological forms have evolved a widespread range of basic solutions to cope with the different problems both organismal and environmental with which they are faced Soon after the turn of the century some biologists realized that these solutions can be best comprehended in the frame work of a comparative approach integrating results of physiological and biochemical studies done at the organismic cellular and molecular levels The development of this approach amongst both physiologists and biochemists remained however extremely slow until recently **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1975 *Biomedical Index to PHS-supported Research* ,1989

Essential Medical Physiology Leonard R. Johnson,2003-09-18 Textbook covering the principal subjects in a modern medical school physiology course **Structure & Function of the Body - E-Book** Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson,2024-06-25 Gain a solid foundation in A P with this easy to understand text Clear and straightforward Structure Function of the Body 17th Edition introduces the typical structure and function of the human body and describes what the body does to maintain homeostasis The book shows how structure fits function using clinical examples to reinforce A P concepts and featuring hundreds of photos and micrographs for realistic visual detail Written by a team of experts led by Kevin Patton this text includes an Evolve website packed with animations audio pronunciations review questions and other interactive learning resources NEW Updated content is added and new line art and photos ensure wider representation of skin color sex age body type and cultural diversity NEW Inclusive terminology reduces the emphasis on

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Trauma William C. Wilson, Christopher M. Grande, David B. Hoyt, 2007-02-05 Compiled by internationally recognized experts in trauma critical care this source discusses the entire gamut of critical care management of the trauma patient and covers several common complications and conditions treated in surgical intensive care units that are not specifically related to trauma Utilizing evidence based guidelines where they ex

Anatomy & Physiology (includes A&P Online course) E-Book Kevin T. Patton, 2018-01-31 Anatomy Physiology includes A P Online course E Book

Breathing as a Tool for Self-Regulation and Self-Reflection Paivi Lehtinen, Minna Martin, Maila Seppa, Tina Toro, 2018-03-29 The book describes how to use breathing as a medium for self regulation and self reflection and how balanced breathing thus helps to promote mental and physical health and alleviate symptoms resulting from imbalanced breathing The authors describe applications of psychophysical breathing therapy in many areas of life developed by both themselves and other professionals trained by them The approach of the book is based on the interactional aspects between mind and body A person s breathing style influences their relation both to themselves and to others and vice versa and thus mental and also physical health A comprehensive theoretical description of the psychophysical regulation of breathing and the consequences of imbalanced breathing is complemented by material derived

from the authors extensive clinical experience Psychological orientations used by the writers include object relations theories and psychodynamic cognitive brief and group therapy theories As a new aspect the writers introduce how breathing patterns are learnt in early interaction The writers also acknowledge how physical factors affect and interact with psychological factors in producing imbalanced breathing **Airway Chemoreceptors in Vertebrates** Giacomo Zaccone,2019-04-23 The book provides a comprehensive and up to date account of the information available on the morphological physiological and evolutionary aspects of specialized cells distributed within the epithelia of the airways in the vertebrates A lot of work has been done on the cell and molecular biology of these cells which are regarded as as oxygen recep Anatomy and Physiology Adapted International Edition E-Book Kevin T. Patton,Gary A. Thibodeau,Andrew Hutton,2019-05-11 Anatomy and Physiology Adapted International Edition E Book Cumulated Index Medicus ,1972 Anthony's Textbook of Anatomy & Physiology - E-Book Kevin T. Patton,Gary A. Thibodeau,2012-03-15 There s no other A P text that equals Anatomy Physiology for its student friendly writing visually engaging content and wide range of learning support Focusing on the unifying themes of structure and function in homeostasis this dynamic text helps you easily master difficult material with consistent thorough and non intimidating explanations You can also connect with the textbook through a number of electronic resources including the engaging A P Online course an electronic coloring book online tutoring and more Creative dynamic design with over 1400 full color photographs and drawings plus a comprehensive color key illustrates the most current scientific knowledge and makes the information more accessible UNIQUE Consistent unifying themes in each chapter such as the Big Picture and Cycle of Life sections tie your learning together and make anatomical concepts relevant UNIQUE Body system chapters have been broken down into separate chapters to help you learn material in smaller pieces UNIQUE A P Connect guides you to the Evolve site where you can learn more about related topics such as disease states health professions and more Quick Guide to the Language of Science and Medicine contains medical terminology scientific terms pronunciations definitions and word part breakdowns for key concepts Brief Atlas of the Human of the Human Body contains more than 100 full color supplemental photographs of the human body including surface and internal anatomy Smaller separate chapters for Cell Reproduction Autonomic Nervous System Endocrine Regulation and Endocrine Glands Expansion of A P Connect includes Protective Strategies of the Respiratory Tract Meth Mouth Chromosome Territories Using Gene Therapy and Amazing Amino Acids Art and content updates include new dynamic art and the most current information available

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