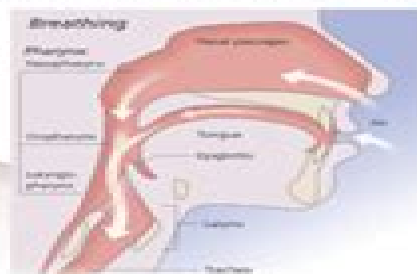
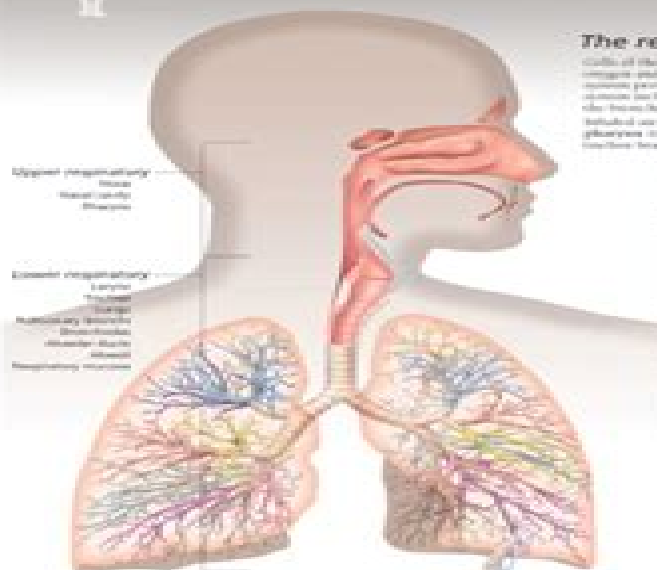




Respiration & Gas Exchange

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 then expels it (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

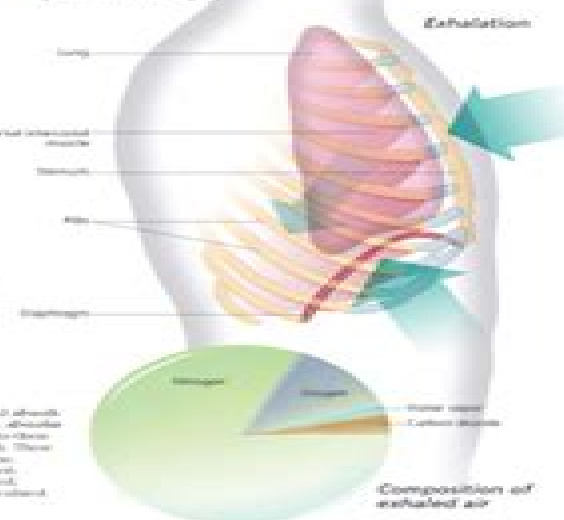
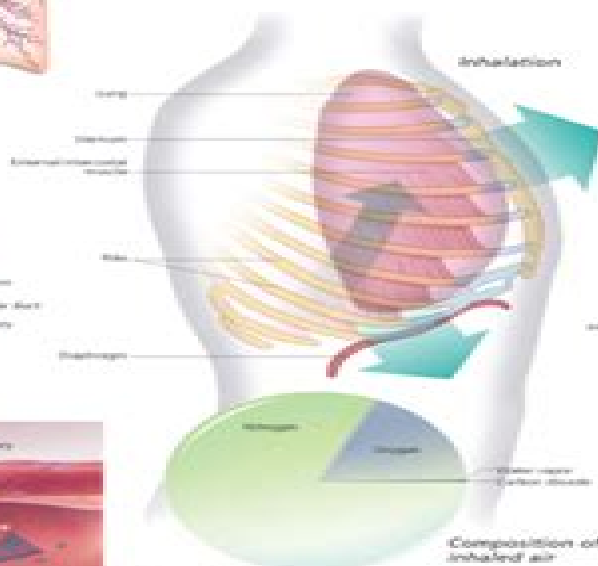


Lung volumes

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).

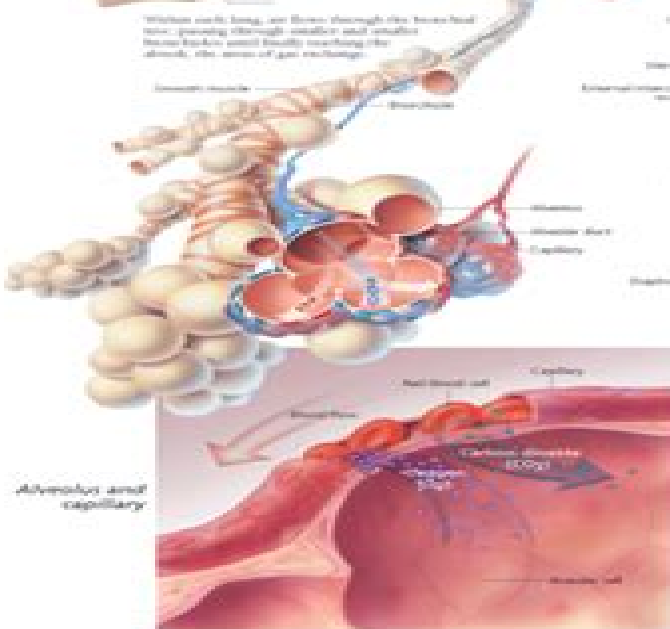
The mechanics of breathing

During inhalation, the diaphragm 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 capture. 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

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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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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 Biomedical Index to PHS-supported Research ,1989

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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 *Cumulated Index Medicus* ,1983

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