

The Respiratory System

The Bronchial Tree

- Right and left bronchus
- Right is more acute in angle and shorter by 2.5cm, resulting in more foreign objects entering the right lung.
- Left bronchus is lower and narrower.
- It divides into:
 - Secondary bronchi
 - Tertiary bronchi
 - Bronchioles
 - Terminal bronchioles
- Alveoli (external respiration takes place, approx 500 million that cover 100m squared)



The Lungs

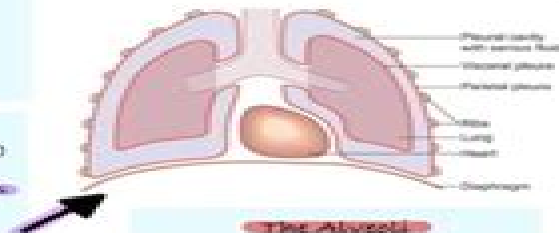
- cone shaped lungs with an apex, base and costal/medial surface
- Pleural membranes: parietal pleura, potential space and visceral pleura
- Lobes: right lung has 3, left lung has 2
- Lobules
- Alveoli
- Arterioles
- Venous plexus
- The top of the lung is called the apex, lies 2" above the clavicle.

The Hilum

- Each lung has an entry point for:
 - blood vessels (pulmonary arteries and veins)
 - the bronchi (x2)
 - lymph vessels
 - nerves (sympathetic and parasympathetic)

The Pleura

- double layer of serous membrane, covers the lungs (visceral) and inside the chest wall (parietal)
- a potential space between the two layers is filled with serous fluid and prevents friction when we breathe.



The Alveoli

Alveoli are **small air sacs** in the lungs which are specially adapted for **gas exchange**.

The walls of the alveoli separating the air from the blood are very thin allowing gases to diffuse quickly. The blood supply to the alveoli is very good to constantly supply blood with little oxygen and a lot of carbon dioxide keeping a high concentration gradient. The walls of the alveoli are kept moist to allow gases to dissolve into the fluid for gas exchange with the blood.



A diagram showing several alveoli and the capillaries supplying them with blood.



A diagram showing a single alveolus with the oxygen going into the blood and Carbon Dioxide leaving the blood.



A diagram showing the bronchioles.

The Bronchioles

The bronchioles are small **branches of the bronchi** which link the alveoli in the lungs to the trachea. There are many bronchioles in the lungs. The bronchioles **branch out** and contain around **1000 million alveoli**.

BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT...

Respiratory System A Tutorial Study Guide

IM Harris



Respiratory System A Tutorial Study Guide:

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

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Linton and Matteson's Medical-Surgical Practical Nursing in Canada - E-Book Katherine Poser, Adrienne Dill Linton, Mary Ann Matteson, 2023-10-13 Master the role and responsibilities of the PN in Canadian medical surgical nursing The only Canadian medical surgical nursing text designed for the Practical Nurse student Linton and Matteson s Medical Surgical Practical Nursing in Canada provides a solid foundation in the fundamentals of nursing including roles settings and issues and trends in health care Content includes descriptions of pathology medical conditions organized by body system emergency and disaster management pandemic preparedness and mental health nursing Unique to this text is a unit focusing on the older adult a key patient population that PNs see in practice Edited by Katherine Poser an experienced educator and critical care nurse this text helps you prepare for the REx PN or CPNRE licensure examinations and succeed as a new nurse 1996 Healthcare CAI Directory Scott Alan Stewart, 1996-05-01 Contains descriptions for 864 computer assisted instruction and reference programs for Medicine Nursing Allied Health Dentistry and other health professions Those dealing with Patient Education and Health Promotion can be found in a separate volume *Medical-Surgical Nursing E-Book* Adrienne Dill Linton, Mary Ann Matteson, 2019-02-13 Gain the knowledge and skills you need to effectively care for adult patients Medical Surgical Nursing 7th Edition covers both medical surgical and psychiatric mental health conditions and disorders while building on the fundamentals of nursing This essential text focuses on nursing roles settings trends body systems and their disorders and emergency and disaster management Unique to this edition is the gerontologic nursing unit which addresses physiologic and psychosocial changes in the older adult along with related disorders common to the elder patient the primary patient group population you ll encounter in practice It also emphasizes culturally competent care and holistic nursing while thoroughly covering all relevant

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Proceedings of the International Seminar on Language, Education, and Culture (ISoLEC 2022) Maria Hidayati,Dewi Kartika,Utami Widiati,Suharyadi,Anik Nunuk Wulyani,Yazid Basthomi,2023-04-13 This is an open access book Hosted by Faculty of Letters Universitas Negeri Malang it is an annual International Seminar on Language Education and Culture held to gather researchers practitioners teachers and students to identify and share various aspects in language education and culture Theme Embracing Changes and Innovations in Language Education Art and Culture in Post Pandemic Life Subthemes Changes and Innovations in Language Education and Culture Changes and Innovations in Literature and Art Online Teaching and Learning Practices Corpus Based Language Teaching and Research Language in Media Gender and Identity Pop Contemporary and Digital Culture Culture and SpiritualityMultilingualism and Translanguaging Visual and Performing Arts Oral Tradition Local Culture Digital Literacy and Information Science Scientific and Technical Aerospace

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entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Human Motion Capture and Identification for Assistive Systems Design in Rehabilitation Pubudu N. Pathirana,Saiyi Li,Yee Siong Lee,Trieu Pham,2021-05-20 HUMAN MOTION CAPTURE AND IDENTIFICATION FOR ASSISTIVE SYSTEMS DESIGN IN REHABILITATION A guide to the core ideas of human motion capture in a rapidly changing technological landscape Human Motion Capture and Identification for Assistive Systems Design in Rehabilitation aims to fill a gap in the literature by providing a link between sensing data analytics and signal processing through the characterisation of movements of clinical significance As noted experts on the topic the authors apply an application focused approach in offering an essential guide that explores various affordable and readily available technologies for sensing human motion The book attempts to offer a fundamental approach to the capture of human bio kinematic motions for the purpose of uncovering diagnostic and severity assessment parameters of movement disorders This is achieved through an analysis of the physiological reasoning behind such motions Comprehensive in scope the text also covers sensors and data capture and details their translation to different features of movement with clinical significance thereby linking them in a seamless and cohesive form and introducing a new form of assistive device design literature This important book Offers a fundamental approach to bio kinematic motions and the physiological reasoning behind such motions Includes information on sensors and data capture and explores their clinical significance Links sensors and data capture to parameters of interest to therapists and clinicians Addresses the need for a comprehensive coverage of human motion capture and identification for the purpose of diagnosis and severity assessment of movement disorders Written for academics technologists therapists and clinicians focusing on human motion Human Motion Capture and Identification for Assistive Systems Design in Rehabilitation provides a holistic view for assistive device design optimizing various parameters of interest to relevant audiences EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency,1993-10 **Human Physiology** Stuart Ira Fox,Laurence G. Thoun,1990 The exercises in this manual have been carefully refined and updated to keep pace with changes in laboratory technology computer assisted instruction biohazard health concerns and vendor supply sources The manual is self contained so that students can prepare for the laboratory exercises and quizzes without having to refer to the textbook

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