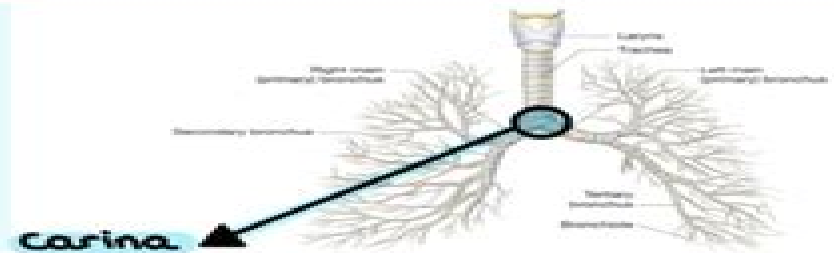


# The Respiratory System

## 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
- **Labels**: right lung has 3, left lung has 2
- **lobules**
- **alveoli**
- **bronchioles**
- **alveolar pores**
- 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** (a)
  - **lymph vessels**
  - **nerves** (sympathetic and parasympathetic)

## The Pleura

- **double layer** of serous membrane, **cover the lungs** (visceral) and **inside the chest wall** (parietal).
- **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

**United States. Environmental  
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## **Respiratory System A Tutorial Study Guide:**

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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

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**Agents of Change** Clarence Walter Mangham, 1995 Volume one is the first of a series of historical documents designed to provide information on instructional improvement projects that have received grants and loans from the California Community College Fund for Instructional Improvement *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 Spirituality Multilingualism and Translanguaging Visual and Performing Arts Oral Tradition Local Culture Digital Literacy and

Information Science      *Aerospace Medicine and Biology* ,1981 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA      *Scientific and Technical Aerospace Reports* ,1993      *Introduction to Medical-Surgical Nursing - E-Book* Adrienne Dill Linton,2014-04-14 With just the right level of information to equip you to effectively care for adults and older adults Linton s *Introduction to Medical Surgical Nursing* 5th Edition is the leading LPN LVN text in its field Covering both med surg and psychiatric mental health conditions and disorders it addresses your role in a variety of care settings emphasizes culturally competent care and holistic nursing and thoroughly covers all relevant NCLEX PN Test Plan content Abundant real life case studies clearly show how to apply what you ve learned to clinical practice Features separate chapters on common high profile disorders including hypertension diabetes and shock providing an in depth understanding for patient care Offers foundational units on basic concepts related to the health care system care settings the nursing process leadership nutrition the older adult growth and nutrition legal ethical considerations evidence based nursing care and many more essential topics avoiding repetition later in the text Includes a separate comprehensive unit on the older adult and related disorders no other LPN LVN med surg text has as much coverage of this primary patient group Includes a separate comprehensive unit on psychosocial responses to illness psychiatric disorders and substance abuse eliminating the need for a separate psychiatric mental health nursing text Emphasizes content related to the NCLEX PN Test Plan including health promotion nutrition legal ethical issues HIPAA and prevention of medication medical errors Offers in depth pharmacology coverage the Pharmacology Tutorial covers drug classifications how drugs work and nursing responsibilities Pharmacology Capsules boxes provide medication information precautions for use interactions and side adverse effects and Pharmacology and Medications tables in body systems chapters include classification use action side adverse effects and nursing interventions all with the goal of reducing medication errors on the job and equipping you to pass the NCLEX exam Assists with assignment and supervision helping you assign tasks to nurse assistants patient care techs and unlicensed assistive personnel and making sure you understand the difference between delegation management supervision and assignment of tasks on the health care team Features Diagnostic Tests and Procedures tables for a quick reference to MRI CT Doppler flow lumbar puncture tests for neurologic disorders and much more Highlights timely information with Health Promotion boxes Cultural Considerations boxes Nutrition Considerations boxes and Complementary and Alternative Therapies boxes Provides bulleted lists of nursing instructions for Patient Teaching Plans stressing the role and responsibility of the LPN LVN to reinforce patient education Provides consistent Nursing Care Plans that reinforce the nursing process and focus on critical thinking and Put on Your Thinking Cap Critical Thinking boxes encourage you to pause and consider the practical implications of what you have just read      *The Latest and Best of TESS* ,1991      **Monthly Catalog, United States Public Documents** United States. Superintendent of



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