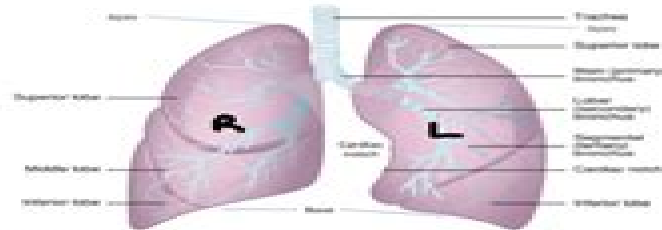
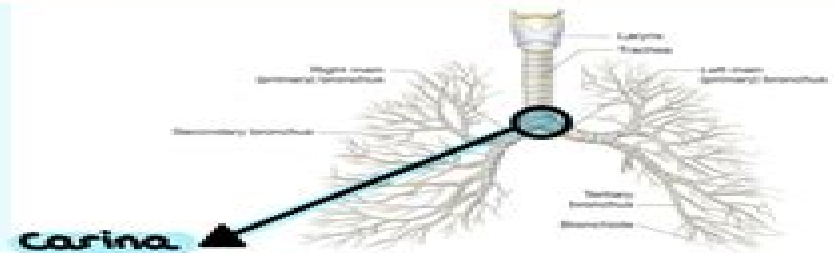


The Respiratory System

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

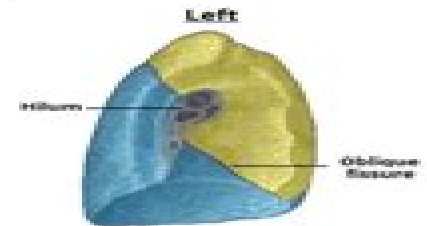
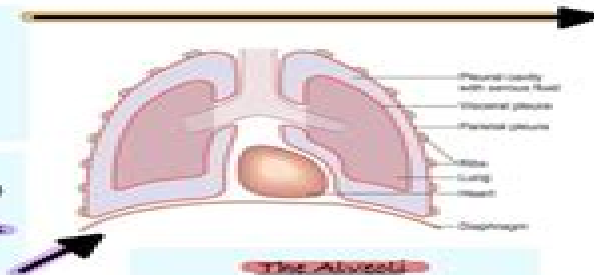
- 2 cone shaped lungs with an apex, base and costal/medial surface
 - Pleural membranes: parietal pleura, potential space and visceral pleura
 - Lobes: right lung has 3, left lung has 2
 - Lobules
 - Alveoli
 - Surfactant
 - Elastic fibres
- The top of the lung is called the apex, lies 1" above the clavicle.

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

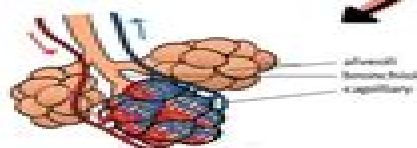
- Double layer of serous membrane, cover the lungs (visceral) and inside the chest wall (parietal).
- A potential space between the two layers is filled with serous fluid and prevents friction when we breathe.



The Alveoli

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

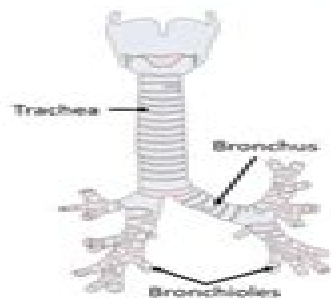
The walls of the alveoli separating the air from the blood are very thin allowing gases to diffuse quickly. The blood supply to the alveoli is very good to constantly supply blood with little oxygen and a lot of carbon dioxide keeping a high concentration gradient. The walls of the alveoli are kept moist 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 **surround alveoli** that contain around **1000 million alveoli**.

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

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Table of Contents Respiratory Systemstudy Guide Paper

1. Understanding the eBook Respiratory Systemstudy Guide Paper
 - The Rise of Digital Reading Respiratory Systemstudy Guide Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Respiratory Systemstudy Guide Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Respiratory Systemstudy Guide Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Respiratory Systemstudy Guide Paper

- Personalized Recommendations
- Respiratory Systemstudy Guide Paper User Reviews and Ratings
- Respiratory Systemstudy Guide Paper and Bestseller Lists
- 5. Accessing Respiratory Systemstudy Guide Paper Free and Paid eBooks
 - Respiratory Systemstudy Guide Paper Public Domain eBooks
 - Respiratory Systemstudy Guide Paper eBook Subscription Services
 - Respiratory Systemstudy Guide Paper Budget-Friendly Options
- 6. Navigating Respiratory Systemstudy Guide Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Respiratory Systemstudy Guide Paper Compatibility with Devices
 - Respiratory Systemstudy Guide Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Respiratory Systemstudy Guide Paper
 - Highlighting and Note-Taking Respiratory Systemstudy Guide Paper
 - Interactive Elements Respiratory Systemstudy Guide Paper
- 8. Staying Engaged with Respiratory Systemstudy Guide Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Respiratory Systemstudy Guide Paper
- 9. Balancing eBooks and Physical Books Respiratory Systemstudy Guide Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Respiratory Systemstudy Guide Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Respiratory Systemstudy Guide Paper
 - Setting Reading Goals Respiratory Systemstudy Guide Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Respiratory Systemstudy Guide Paper

- Fact-Checking eBook Content of Respiratory Systemstudy Guide Paper
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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