

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 (a)
 - 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...

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Minjie Lin



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Table of Contents Study Guide For The Respiratory System Answers

1. Understanding the eBook Study Guide For The Respiratory System Answers
 - The Rise of Digital Reading Study Guide For The Respiratory System Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide For The Respiratory System Answers
 - 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 Study Guide For The Respiratory System Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide For The Respiratory System Answers
 - Personalized Recommendations
 - Study Guide For The Respiratory System Answers User Reviews and Ratings
 - Study Guide For The Respiratory System Answers and Bestseller Lists
5. Accessing Study Guide For The Respiratory System Answers Free and Paid eBooks

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