

The Respiratory System

H&SP/ Medical Anatomy & Physiology 1-4a
Lab Activity

Background

The Respiratory System

A healthy respiratory system is crucial to an individual's overall health, and respiratory distress is often one of the first indicators of a life-threatening illness. The function of the respiratory system is to exchange gases between the external air and the body. The lungs are the primary organ of the respiratory system that performs this function.

The lungs take up a large portion of the thoracic cavity and are actually attached to the surface of the thoracic cavity by a sticky pleural membrane. The pleural membrane produces a liquid called surfactant that allows the lung to stick to the ribs. On occasion, air gets caught in the space between the lungs and the thoracic cavity and can cause the lungs to collapse. This may be caused by trauma, infection, or can occur spontaneously.

The amount of oxygen needed by the body, and carbon dioxide produced by the body, can vary greatly depending on an individual's activity level. Exercise can increase the need for energy produced by cellular respiration, and therefore the oxygen demanded by the body, by 25 times. An increase in the rate of respiration can meet this demand.

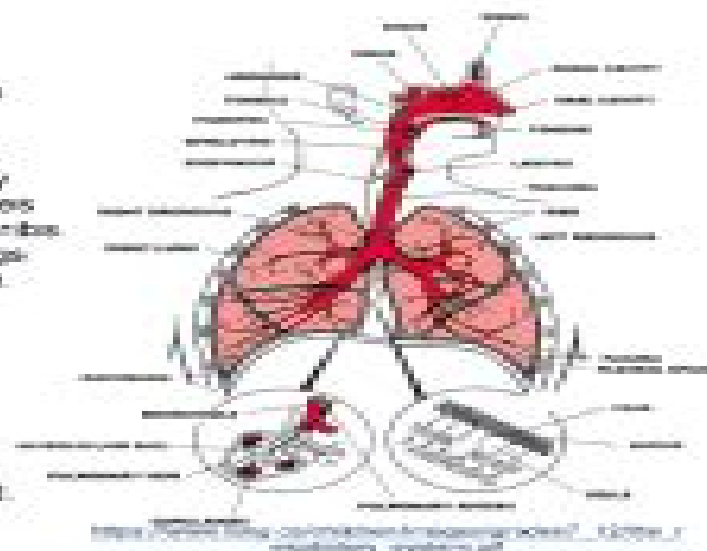
Process of Respiration

Step	Process
1	The intercostal muscles contract, pulling the ribs up, and the diaphragm contracts and moves down, pulling air into the body through the mouth or nostrils.
2	Air passes through the nasopharynx or oral pharynx through the epiglottis , which prevents food from entering the trachea.
3	The trachea contains tiny hair-like cilia and mucus that catch any particles in the air that could be harmful to the lungs, and moves them back up the trachea to be spit out.
4	Air moves down the trachea, which branches into the right and left bronchi .
5	Right and left bronchi continue to branch, much like an upside-down tree, into smaller limbs called bronchioles .
6	The bronchioles end in tiny clusters of air sacs called alveoli , where gas exchange will occur.
7	Alveoli have extremely thin membranes surrounded by pulmonary capillaries from the cardiovascular system. An adult has approximately 300 million alveoli in the lungs for gas exchange.
8	Oxygen that has been pulled into the alveoli diffuse through the alveoli membrane and into the capillaries to be circulated throughout the body for cellular respiration.
9	Carbon dioxide that has been created by the body through cellular respiration is brought by the capillaries to the alveoli and diffuses into the alveoli.
10	The diaphragm relaxes, moving up and causing air in the alveoli to be exhaled.

Name(s): _____

Period: _____ Date: _____

THE RESPIRATORY SYSTEM



Haspi Medical Anatomy And Physiology 13c Answers

Michael Seilmaier



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Table of Contents Haspi Medical Anatomy And Physiology 13c Answers

1. Understanding the eBook Haspi Medical Anatomy And Physiology 13c Answers
 - The Rise of Digital Reading Haspi Medical Anatomy And Physiology 13c Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Haspi Medical Anatomy And Physiology 13c 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 Haspi Medical Anatomy And Physiology 13c Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Haspi Medical Anatomy And Physiology 13c Answers
 - Personalized Recommendations
 - Haspi Medical Anatomy And Physiology 13c Answers User Reviews and Ratings
 - Haspi Medical Anatomy And Physiology 13c Answers and Bestseller Lists
5. Accessing Haspi Medical Anatomy And Physiology 13c Answers Free and Paid eBooks
 - Haspi Medical Anatomy And Physiology 13c Answers Public Domain eBooks
 - Haspi Medical Anatomy And Physiology 13c Answers eBook Subscription Services
 - Haspi Medical Anatomy And Physiology 13c Answers Budget-Friendly Options
6. Navigating Haspi Medical Anatomy And Physiology 13c Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Haspi Medical Anatomy And Physiology 13c Answers Compatibility with Devices
 - Haspi Medical Anatomy And Physiology 13c Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Haspi Medical Anatomy And Physiology 13c Answers
 - Highlighting and Note-Taking Haspi Medical Anatomy And Physiology 13c Answers
 - Interactive Elements Haspi Medical Anatomy And Physiology 13c Answers

8. Staying Engaged with Haspi Medical Anatomy And Physiology 13c Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Haspi Medical Anatomy And Physiology 13c Answers
9. Balancing eBooks and Physical Books Haspi Medical Anatomy And Physiology 13c Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Haspi Medical Anatomy And Physiology 13c Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Haspi Medical Anatomy And Physiology 13c Answers
 - Setting Reading Goals Haspi Medical Anatomy And Physiology 13c Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Haspi Medical Anatomy And Physiology 13c Answers
 - Fact-Checking eBook Content of Haspi Medical Anatomy And Physiology 13c 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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