

Respiratory Quiz Answer Key PDF Anatomy

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Which structure connects	the larv	vnx to the	bronchi?
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- A. Pharynx
- C. AlVeoli
- D. Bronchioles
- C. Trachea ✓

What are the functions of the respiratory system?

- A. Gas exchange ✓
- C. Blood filtration
- D. Nutrient absorption
- C. Sound production ✓

What is the primary function of the nasal cavity?

- A. Sound production
- C. Filtering and humidifying air ✓
- D. Nutrient absorption
- C. Gas exchange

Discuss the impact of smoking on the respiratory system.

Smoking introduces harmful chemicals into the lungs, causing inflammation, reduced lung capacity, and increased risk of respiratory infections and diseases.

Which structures are part of the upper respiratory tract?

- A. Nasal Cavity ✓
- C. Pharynx ✓

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D. Larynx ✓ C. Trachea
Which condition is characterized by airway inflammation and constriction?
 A. Pneumonia C. Emphysema D. Chronic Bronchitis C. Asthma ✓
Which part of the brain primarily controls breathing?
A. C cerebellum C. Hypothalamus D. Thalamus C. Medulla oblongata ✓
Which factors can affect respiratory health?
Which factors can affect respiratory health? A. Smoking ✓ C. Diet D. Exercise ✓ C. Air pollution ✓
A. Smoking ✓ C. Diet D. Exercise ✓
A. Smoking ✓ C. Diet D. Exercise ✓ C. Air pollution ✓
A. Smoking ✓ C. Diet D. Exercise ✓ C. Air pollution ✓ Which conditions are classified as Chronic ObstructIVE Pulmonary Diseases (COPD)? A. Asthma C. Emphysema ✓ D. Pneumonia



Air		

Which diagnostic tool is used to visualize lung structure?
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- A. MRI
- C. Spirometry
- D. Ultrasound
- C. Chest X-ray ✓

What changes occur in the respiratory system during an asthma attack?

The airways become inflamed and constricted, resulting in wheezing, coughing, and shortness of breath.

Describe the role of the mucociliary escalator in respiratory defense.

The mucociliary escalator functions by using cilia on the surface of respiratory epithelial cells to move mucus, which traps dust, microbes, and other particles, upwards towards the throat for expulsion.

What are the components of the lower respiratory tract?

- A. Larynx
- C. Trachea ✓
- D. Bronchi ✓
- C. AlVeoli ✓

How does the body regulate breathing in response to increased levels of carbon dioxide?

The body regulates breathing in response to increased levels of carbon dioxide by increasing the rate and depth of respiration.

Explain the process of gas exchange in the alveoli.



In the alveoli, oxygen from the air diffuses across the alveolar membrane into the capillaries, where it binds to hemoglobin in red blood cells, while carbon dioxide diffuses from the blood into the alveoli to be exhalated.

Explain how spirometry is used to assess lung function and diagnose respiratory conditions.

Spirometry is used to assess lung function by measuring the amount of air a person can inhale and exhale, as well as the speed of exhalation. This data helps in diagnosing respiratory conditions such as asthma, chronic obstruct pulmonary disease (COPD), and other lung disorders.

Which structures a	re involved in the	gas exchange process?
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- A. AlVeoli ✓
- C. Bronchioles
- D. Trachea
- C. Capillaries ✓

What is the normal respiratory rate for an adult?

- A. 5-10 breaths per minute
- C. 25-30 breaths per minute
- D. 30-40 breaths per minute
- C. 12-20 breaths per minute ✓

How many lobes does the left lung have?

- A. One
- C. Three
- D. Four
- C. Two ✓