

What is Lungs Anatomy?

Worksheet

The lungs are two spongy, cone-shaped organs in the thoracic cavity - the right lung has 3 lobes and the left has 2 (plus a cardiac notch for the heart) - wrapped in pleura and connected to the airway via the bronchial tree ending in millions of alveoli.

Questions

1. How many lobes does the right lung have?

- A) 1
- B) 2
- C) 3
- D) 4

2. Why does the left lung have fewer lobes than the right?

- A) It is diseased
- B) It accommodates the heart via a cardiac notch
- C) It has a different gas exchange role
- D) It is not fully developed

3. What membrane surrounds and lubricates each lung?

- A) Peritoneum
- B) Pleura
- C) Pericardium
- D) Meninges

4. Where does actual gas exchange with the blood occur in the lungs?

- A) Bronchi
- B) Trachea
- C) Alveoli
- D) Hilum

5. A chest X-ray shows a mass affecting a 'middle lobe.' Which lung must it be in?

6. Why does the left lung have a smaller volume than the right lung on average?

7. Inhaled fluid is more likely to lodge in the right lung than the left. Why, anatomically?

8. Define: How many lobes does the right lung have?

9. Define: How many lobes does the left lung have?

10. Define: What is the pleura?

Answer Key

1. C) 3 - The right lung has three lobes: superior, middle and inferior.
2. B) It accommodates the heart via a cardiac notch - The heart's position on the left requires the cardiac notch, reducing the left lung's size and lobe count.
3. B) Pleura - The pleura (visceral + parietal layers) reduces friction as the lungs expand and contract.
4. C) Alveoli - Alveoli's thin walls and huge combined surface area make them the site of gas exchange.
5. Only the right lung has a middle lobe The left lung has just superior and inferior lobes Answer: the right lung
6. The heart sits slightly left of the body's midline The left lung has a cardiac notch carved out to accommodate it Answer: the cardiac notch reduces the left lung's available space
7. The right primary bronchus is shorter, wider and more vertical than the left This path offers less resistance to falling objects/fluids Answer: the right bronchus's straighter, wider angle
8. Three: superior, middle and inferior.
9. Two: superior and inferior, plus a cardiac notch for the heart.
10. A double-layered membrane (visceral + parietal) surrounding each lung, with fluid that reduces friction during breathing.

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