

Respiratory System Physiology

Effect of Pressure on Respiration

1. How does pressure in the following structures compare with pressure in the atmosphere?
 During quiet breathing, alveolar pressure is less than atmospheric pressure. Alveolar pressure is 1 mmHg below atmospheric pressure.
 During quiet breathing, intrapleural pressure is less than atmospheric pressure. At rest, intrapleural pressure is 4 mmHg below atmospheric pressure.

2. Diagram of the respiratory system illustrating pressure changes during inspiration and expiration. Label the structures and the pressure changes occurring in the lungs and pleural cavity during inspiration and expiration.

3. What are the distribution curves of pressure in the lungs and pleural cavity during inspiration and expiration?
 During inspiration, the distribution curve of pressure in the lungs and pleural cavity is shifted to the right. During expiration, the distribution curve of pressure in the lungs and pleural cavity is shifted to the left.

4. The pressure in the pleural cavity is less than the pressure in the lungs. Why? What would happen if the pressure in the pleural cavity were equal to the pressure in the lungs?
The pressure in the pleural cavity is less than the pressure in the lungs because the pleural cavity is a closed space. If the pressure in the pleural cavity were equal to the pressure in the lungs, the lungs would collapse.

Respiratory Volumes and Capacities: Spirometry

1. Spirometry is a technique for measuring lung volumes and capacities. Label the structures and the volumes and capacities measured during inspiration and expiration. During inspiration, the volumes measured are tidal volume (TV) and inspiratory reserve volume (IRV). During expiration, the volumes measured are expiratory reserve volume (ERV) and functional residual capacity (FRC).

Exercise 24 Respiratory System Physiology Answers

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