

Respiratory Physiology MCQ

Lung Compartments

1. A spirometer can be used to directly measure which of the following?

- (A) Functional residual capacity
- (B) Peak flow rate
- (C) Residual volume
- (D) Total lung capacity
- (E) Vital capacity

Answer: E. A spirometer is an instrument that records the volume of air moved into and out of the lungs during breathing, and therefore can only be used to measure lung volumes and capacities that can be exchanged with the environment. Spirometry can be used to measure the vital capacity, which is the maximal amount of gas that can be expired following a maximal inspiration. Spirometry cannot be used to measure the volume of the gas that remains in the lungs following a maximal expiration (residual volume), and thus cannot directly measure the lung capacities that contain the residual volume, that is, the functional residual capacity and the total lung capacity. The peak flow rate is the maximal rate at which the volume of gas is exhaled. The measurement of flow rate requires a pneumotach, an instrument that integrates exhaled volume to derive the flow rate, or by a peak flow meter that patients can use at home, which are calibrated to record exhaled flow rates.

2. Which of the following lung volumes or capacities can be measured by spirometry?

- (A) Functional residual capacity (FRC)
- (B) Physiologic dead space
- (C) Residual volume (RV)
- (D) Total lung capacity (TLC)
- (E) Vital capacity (VC)

Answer: E. Residual volume (RV) cannot be measured by spirometry. Therefore, any lung volume or capacity that includes the RV cannot be measured by spirometry. Measurements that include RV are functional residual capacity (FRC) and total lung capacity (TLC). Vital capacity (VC) does not include RV and is, therefore, measurable by spirometry. Physiologic dead space is not measurable by spirometry and requires sampling of arterial P_{CO_2} and expired CO_2 .

3. Which volume remains in the lungs after a tidal volume (TV) is expired?

- (A) Tidal volume (TV)
- (B) Vital capacity (VC)
- (C) Expiratory reserve volume (ERV)
- (D) Residual volume (RV)
- (E) Functional residual capacity (FRC)
- (F) Inspiratory capacity
- (G) Total lung capacity

Answer: E. During normal breathing, the volume inspired and then expired is a tidal volume (TV). The volume remaining in the lungs after expiration of a TV is the functional residual capacity (FRC).

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