

# RPFT<sup>Q&As</sup>

Registry Examination for Advanced Pulmonary Function Technologists

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**QUESTION 1**

During an exercise study, a pulmonary function technologist notices the systolic blood pressure increased to 270 mm Hg using an automated cuff. Which of the following should the technologist do?

- A. Terminate the test and administer oxygen by nasal cannula.
- B. Continue the test and recheck blood pressure using manual cuff method.
- C. Terminate the test at this time and recheck blood pressure.
- D. Continue the test if within 5 minutes of completion.

Correct Answer: A

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**QUESTION 2**

During a cardiopulmonary stress test using breath-by-breath gas analysis, a pulmonary function technologist notices that the VO<sub>2</sub> suddenly decreases. Which of the following may explain this change?

- 1.  
The patient has achieved anaerobic threshold.
- 2.  
The measurement of the expired gas volumes is inaccurate.
- 3.  
O<sub>2</sub> analyzer "phase delay" has increased.
- 4.  
There is a leak in the tubing or mouthpiece.

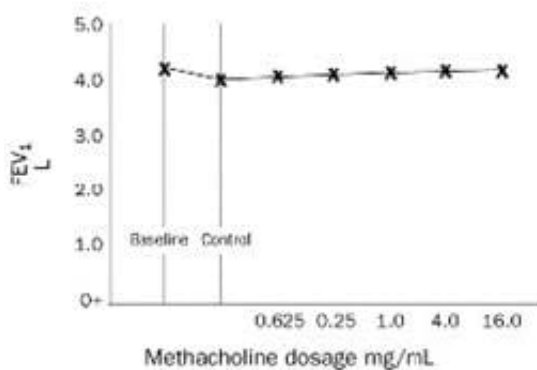
- A. 1, 3, and 4 only
- B. 1, 2, and 3 only
- C. 1, 2, and 4 only
- D. 2, 3, and 4 only

Correct Answer: A

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**QUESTION 3**

The following data were obtained from a bronchial challenge test:



APC20 of 2 mg/mL was obtained the next day in another laboratory. Which of the following is the most likely explanation for these data?

- A. The two test results are within day-to-day variability.
- B. Incorrect doses of methacholine were administered.
- C. The spirometer accuracy drifted during the test.
- D. The patient's effort was inconsistent.

Correct Answer: C

**QUESTION 4**

Which of the following may cause a reduction in end-tidal CO<sub>2</sub>?

- A. Increased VD/VT ratio
- B. Anxiety-induced hyperventilation
- C. Exercise below the anaerobic threshold
- D. Eating a high-protein diet

Correct Answer: B

**QUESTION 5**

Which of the following thresholds for a clinically significant change in lung function from the beginning to the end of a methacholine challenge test is significant?

- A. An increase of more than 20% in airway resistance
- B. A decline of more than 30% in FEF<sub>25-75%</sub>
- C. A decline of more than 20% in FEV<sub>1</sub>
- D. A decline of more than 20% in inspiratory capacity

Correct Answer: C

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