



RPFT^{Q&As}

Registry Examination for Advanced Pulmonary Function Technologists

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QUESTION 1

A pulmonary function technologist is performing an exercise (stress) test on a patient with severe COPD. As the test progresses, the patient shows signs of increasing dyspnea. Measurements of inspiratory capacity decreased from 2.0 L to 1.5 L. Which of the following most likely occurred?

- A. dynamic hyperinflation
- B. disconnected gas sampling line
- C. drift in the flow transducer
- D. acute decrease in FRC

Correct Answer: D

QUESTION 2

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_{25-75%}
- C. A decline of more than 20% in FEV₁
- D. A decline of more than 20% in inspiratory capacity

Correct Answer: C

QUESTION 3

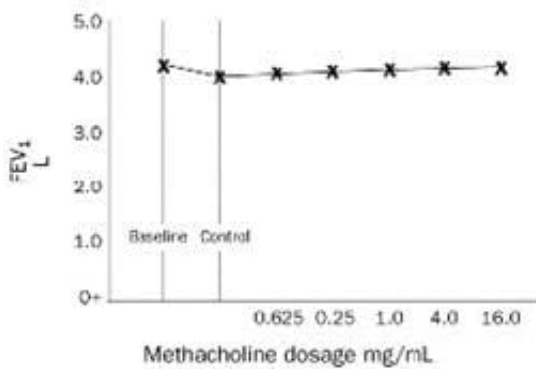
A patient with severe airflow limitation pants too rapidly (> 3 breaths/second) against a closed shutter in a body plethysmograph. Which of the following will occur?

- A. VTG underestimation
- B. VTG overestimation
- C. RAW underestimation
- D. RAW overestimation

Correct Answer: D

QUESTION 4

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 5

Successive peak flow measurements made with a peak flowmeter on a subject previously diagnosed as having asthma yield the following results:

Trial 1	6.27 L/sec
Trial 2	5.07 L/sec
Trial 3	4.38 L/sec

Which of the following is the best explanation for these?

- A. Condensation of moisture in the peak flowmeter
- B. Normal response
- C. Improper calibration of the peak flowmeter
- D. Increasing airways resistance in the subject

Correct Answer: D