

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).

Mcqs With Answers On Respiratory Physiology

David Kirk



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textbooks and periodicals Theodore Edward Bolden, Eugenia L. Mobley, Elzer S. Chandler, 1973 **First Aid for the USMLE Step 1**, 2005 *First Aid for the USMLE Step 1* Vikas Bhushan, 2005 *Physiology* Robert M. Berne, Matthew N. Levy, 1998 Current and comprehensive this text emphasizes fundamental mechanisms and concepts in human physiology Individual concepts are presented in an organ systems approach clearly describing all mechanisms that control and regulate function Key experimental observations and examples are included for students who want a better Anaesthesia and Intensive Care, 1993 *British Book News* British Council, 1989 Includes no 53a British wartime books for young people National Library of Medicine Audiovisual Catalog, 1978 *Gaseous Exchange MCQ (Multiple Choice Questions)* Arshad Iqbal, The Gaseous Exchange Multiple Choice Questions MCQ Quiz with Answers PDF Gaseous Exchange MCQ PDF Download Quiz Questions Practice Tests with Answer Key Class 10 Biology Questions Bank MCQs Notes includes revision guide for problem solving with solved MCQs Gaseous Exchange MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Gaseous Exchange MCQ PDF book helps to practice test questions from exam prep notes The Gaseous Exchange MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Gaseous Exchange Multiple Choice Questions and Answers MCQs PDF Free download sample a book covers solved quiz questions and answers on 10th grade biology topics Gaseous exchange process gaseous exchange in humans gaseous exchange in plants cellular respiration exchange of gases in humans lungs photosynthesis respiratory disorders thoracic diseases and zoology tests for high school students and beginners Gaseous Exchange Quiz Questions and Answers PDF free download eBook s sample covers exam s workbook interview questions and competitive exam prep with answer key The book Gaseous Exchange MCQs PDF includes high school question papers to review practice tests for exams Gaseous Exchange Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET Jobs Entry Level competitive exam Gaseous Exchange Mock Tests eBook covers problem solving exam tests from life science textbooks *British Book News*, 1989

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