

# Measuring Lung Capacity

## Introduction:

The amount of air that you move in and out of your lungs depends on how quickly you are breathing. The amount of air that is moved in and out of the lungs when a person is breathing normally is called the **tidal volume**. This amount of air provides enough oxygen for the body when the person is resting. It is possible to **inhale more deeply and exhale more forcefully than usual**. The maximum amount of air moved in and out of the lungs when the deepest possible inhalation is followed by the strongest possible expiration is called the **vital capacity**. The amount of air that remains in the lungs after **exhaling normally but which can be expelled is the expiratory reserve**. A certain amount of air in the lungs cannot be expelled. This amount is called the **residual volume**.

## Pre Lab Questions:

1. Why is it more important to measure tidal volume and vital capacity more than once and then calculate mean for these measurements?

It is important to take more than one measurement and to take the average because a person is not going to have the same results and exact measurements all three times.

2. What would you conclude if the balloon were smaller during your vital capacity measurement than during your tidal volume measurement?

In vital capacity you have more air in your lungs and in tidal you have less air in your lungs. So it will mean you have less air in your lungs.

3. List some possible sources of error that could occur during this experiment

You could be pushing more air out when you are doing your tidal volume than just what you breathe normally. If you have a hole in the balloon. Or the balloon has a different volume.

4. Why might different people have different residual volume measurements?

However, residual volume can be unchanged despite expiratory muscle weakness.

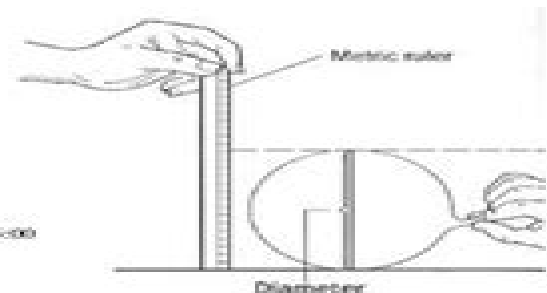
5. Why might a doctor want to determine the tidal volume or vital capacity of a patient?

To see how well a person's lungs work. Or when you workout to see how well your body will react

## Procedure:

### Part A: Measuring Tidal Volume

1. It is important to measure the tidal volume and vital capacity three times to ensure the accuracy of the measurements. When you do the exercise more than once, you can be positive of the results. Stretch a round



# Measuring Lung Capacity Lab Answer Key

**JS Bruner**



## **Measuring Lung Capacity Lab Answer Key:**

**Stoelting's Pharmacology and Physiology in Anesthetic Practice** Pamela Flood, James P. Rathmell, Steven Shafer, 2015-02-04 Pharmacology and Physiology in Anesthetic Practice is a comprehensive review of how anesthetic drugs work in the human body This text has long been required reading for anesthesia residents and student nurse anesthetists This title provides foundational content in the field of anesthesiology Understanding and applying the concepts explained in this text are crucial to competence as an anesthesiologist     **Pulmonary Function Testing** David A. Kaminsky, Charles G. Irvin, 2018-10-04 This book serves as a unique comprehensive resource for physicians and scientists training in pulmonary medicine and learning about pulmonary function testing Pulmonary function testing and the physiological principles that underlie it are often poorly understood by medical students residents fellows and graduate students training in the medical sciences One reason is that students tend to get overwhelmed by the basic mathematical descriptions that explain the working of the respiratory system and the principles of pulmonary function testing Another reason is that too many approaches focus on the math without explaining the clinical relevance of these principles and the laboratory testing that enables us to measure the very lung function that these principles are describing This book answers that need by providing a series of chapters that guide the reader in a natural order of learning about the respiratory system In particular after a general overview of the structure function design of the lung and the history of pulmonary function testing authors begin with the drive to breathe and then follow the pathway of air as it is drawn into the lung undergoes gas exchange and is then exhaled back out again Each chapter focuses on the key principles and corresponding pulmonary function tests that explain each step in this pathway Each chapter is written by at least two experts one with expertise in the underlying physiology and the other with expertise in the clinical testing and application of pulmonary function testing in practice Many figures and tables highlight key points and multiple case studies in each section provide specific examples of the clinical application of each pulmonary function test This is an ideal guide to pulmonary function tests for practicing pulmonologists residents fellows and medical students     **Ruppel's Manual of Pulmonary Function Testing - E-Book** Carl Mottram, 2017-01-11 NEW UPDATED content reflects the latest guidelines testing procedure recommendations and interpretive strategies of the American Thoracic Society European Respiratory Society as well as the newest guidelines for exercise testing from the American Thoracic Society American College of Chest Physicians NEW Practice tests on the Evolve companion website help you apply the knowledge learned in the text NEW Summary Points at the end of chapters reinforce important entry level and advanced level concepts     **Egan's Fundamentals of Respiratory Care - E-Book** Robert M. Kacmarek, James K. Stoller, Albert J. Heuer, 2012-04-19 Updated content aligned with the 2009 NBRC CRT Summary Content Outline ensures the text is both current and clinically accurate Expanded use of the NBRC Exam Matrix Correlation Chart throughout all Evolve online resources makes test preparation easier     *Cumulated Index Medicus* ,1974     **Bio-astronautics; an ASTIA Report**

**Bibliography** Armed Services Technical Information Agency (U.S.), Defense Documentation Center (U.S.), 1959

**Scientific and Technical Aerospace Reports**, 1991      Scandinavian Journal of Respiratory Diseases, 1974

Wilkins' Clinical Assessment in Respiratory Care - E-Book Albert J. Heuer, 2017-10-06 Wilkins' Clinical Assessment in Respiratory Care 8th Edition is the world leading respiratory care text devoted exclusively to patient assessment. This comprehensive book prepares you to assist physicians in the decision making process regarding treatment evaluation of the treatment's effectiveness and determining if changes in the treatment need to be made. Written by Dr Albert Heuer and Dr Craig Scanlan, it emphasizes learning objectives through well organized need to know information and tips. Plus this streamlined edition helps you focus on key content and prepare for the CRT credentialing exam by aligning material within the book to the NBRC exam matrices. Case studies offer real life clinical scenarios challenging you to interpret data and make accurate patient assessments. Questions to Ask boxes identify what practitioners should ask patients i.e. coughing, sputum, shortness of breath or questions to ask themselves on various subjects i.e. lung sounds they are hearing, blood pressure, respiratory rate in order to provide effective patient care. Learning objectives, chapter outlines, chapter overviews and key terms lists in each chapter help you focus on key content. Key Point summaries emphasize the learning objectives and provide an overview of important material. Simply Stated boxes highlight and promote understanding of important concepts. A comprehensive approach provides you with the important information you need to know in order to effectively assess patients. NEW Thoroughly updated content reflects the most recent changes to the NBRC exam. NEW Inclusion of the latest technological advancements relates to the assessment of critical care and non critical care patients. NEW Full color design enhances learning and understanding by making key concepts easy to find.      **Coding for Chest Medicine 2009**, 2009

Medical and Dental Space Planning Jain Malkin, 2014-07-15 THE UPDATED DEFINITIVE REFERENCE ON MEDICAL AND DENTAL OFFICE DESIGN. Medical and Dental Space Planning is an indispensable guide to the myriad of details that make a medical or dental practice efficient and productive. The unique needs of more than thirty specialties as well as primary care are explained in the context of new technology and the many regulatory and compliance issues influencing design. Concepts are also presented for ambulatory surgical centers, diagnostic imaging, clinical laboratories, breast care clinics, endoscopy centers, community health centers, radiation oncology and single specialty and multispecialty group practices and clinics. A thorough review of the latest dental technology and many creative space plans and design ideas for each dental specialty will be of interest to both dentists and design professionals. Important topics like infection control are top of mind, influencing every aspect of dental office design. An inside look at what goes on in each specialist's office will familiarize readers with medical and dental procedures, how they are executed and the types of equipment used. Technology has radically impacted medical and dental practice: digital radiography, electronic health records, mobile health devices, point of care diagnostic testing, digital diagnostic instrumentation, CAD/CAM systems for digital dental impressions and milling of

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**Acid Precipitation**, 1984 Energy Research Abstracts, 1980-11 Report summaries United States. Environmental Protection Agency, 1983

**Respiratory Function in Disease** David V. Bates, 1989 In detailed descriptions of the lung in normal and diseased states the author provides a sound basis for the clinical evaluation of lung disease 5500 references each indexed by author and subject make this book a most complete summary of contemporary information on the human lung

*Principles of Health and Safety in Agriculture* James A. Dosman, Donald W. Cockcroft, 1989-10-31 This indispensable new text is a comprehensive treatment of health and safety problems in agriculture and related industries Respiratory health risks grain dust exposures occupational asthma chronic lung disease chemical exposures incidence of cancer in farmers accidents and injuries and stress and psychiatric problems are addressed from basic science to practical clinical aspects This useful handbook provides a wealth of information for practicing clinicians researchers public health workers those engaged in occupational health programming private industry governmental public health departments and farmers themselves

**Cerebrovascular Bibliography**, 1964 *Medicine Morning Report - E-Book* Raj Dasgupta, Sophia Li, Darren W. Wong, Hui Yi Shan, 2022-05-07 Medicine Morning Report Subspecialties Beyond the Pearls is a case based reference that covers the key material included on USMLE and shelf exams Focusing on the practical information you need to know it teaches how to analyze a clinical vignette in the style of a morning report conference sharpening your clinical decision making skills and helping you formulate an evidence based approach to realistic patient scenarios This subspecialties volume expands on Dr Dasgupta's popular Medicine Morning Report with more comprehensive coverage of internal medicine topics that you will encounter in clerkship and on exams Each case has been carefully chosen and covers scenarios and questions frequently encountered on board exams shelf exams and clinical practice integrating both basic science and clinical pearls Beyond the Pearls tips and secrets all evidence based with references provide deep coverage of core material Morning Report Grand Rounds format begins with the chief complaints to

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