

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.

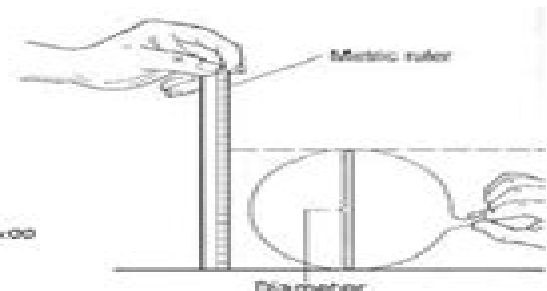
5. Why might a doctor want to determine the tidal volume or vital capacity of a patient?

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

**University of Minnesota. Hospital and
Clinic**



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Medical and Dental Space Planning Jain Malkin, 2014-06-30 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 restorations in the dentist's office portable handheld X ray and 3D cone beam computed tomography for dentists all have major implications for facility design The influence of the Affordable Care Act is transforming primary care from volume based to value based which has an impact on the design of facilities resulting in team collaboration spaces larger consultative examination assessment rooms and accommodation for multidisciplinary practitioners who proactively manage patient care often in a patient centered medical home context The wealth of information in this book is organized to make it easy to use and practical Program tables accompany each medical and dental specialty to help the designer compute the number and sizes of required rooms and total square footage for each practice This handy reference can be used during interviews for a reality check on a client's program or during space planning Other features for example help untangle the web of compliance and code issues governing office based surgery Illustrated with more than 600 photographs and drawings Medical and Dental Space Planning is an essential tool for interior designers and architects as well as dentists physicians and practice management consultants

Anatomy and Physiology Jay Marvin Templin, 1989-06 This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course It has a number of features that will help the student learn about the structure and function of the human body Pref

Murray & Nadel's Textbook of Respiratory Medicine E-Book Robert J. Mason, Arthur Slutsky, John F. Murray, Jay A. Nadel, Michael B. Gotway, 2015-03-17 Ideal for fellows and practicing pulmonologists who need an authoritative comprehensive reference on all aspects of pulmonary medicine Murray and Nadel's Textbook of Respiratory Medicine offers the most definitive content on basic science diagnosis evaluation and treatment of the full spectrum of respiratory diseases Full color design enhances teaching points and highlights challenging

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Cumulated Index Medicus ,1995 **Coders' Desk Reference** Med-Index Division Staff Medicode,Medicode,1999-11 **Proceedings of Share** Share Inc,1979 **Respiratory Care** ,1997

Environmental Science Travis P. Wagner,Robert M. Sanford,2009-01-27 One of the few lab books available in the field Environmental Science is designed to provide environmental scientists with active learning situations that demonstrate the impacts of interactions between humans and the environment It encourages readers to reflect on real life conditions and the connection to the environment and sustainability Emphasis is placed on writing and communication through lab reports presentations and real world scenarios Environmental scientists will be able to apply concepts in the lab and gain a stronger understanding of the field

Pulmonary Function Testing Jack Wanger,1996 **Egan's Fundamentals of Respiratory Care** Donald F. Egan,Craig L. Scanlan,Robert L. Wilkins,James K. Stoller,1999 The 10th Edition of this text delivers a comprehensive introduction to the field of respiratory care including the latest advances and trends in professional practice today This new edition explains the role of respiratory therapists RTs scientific bases for treatment and clinical applications In depth discussions progress from the principles of respiratory care to applied anatomy and physiology patient assessment discussion of specific respiratory illnesses basic therapy acute and critical care and preventive and long term care For use in preparation for the NBRC examination From back cover

Pediatric Hospital Medicine Ronald M. Perkin,Dale A. Newton,James D. Swift,2008 Now in its Second Edition this text focuses exclusively on the management of hospitalized pediatric patients from admission to discharge It is an excellent resource for residency programs hospitalist fellowships and continuing education for physicians whose practice includes the management of hospitalized newborns and children Because pediatric hospital care is provided by a wide variety of healthcare professionals and in many different hospital settings this text provides a framework for unified management and effective and efficient care This edition includes new sections on

emergency medicine and psychiatric hospitalization and expanded coverage of management of children with complex and chronic conditions **California Journal of Science Education** ,2001 **Egan's Fundamentals of Respiratory Care**
Craig L. Scanlan,1990 Cystic Fibrosis "GAP" Conference Report ,1979 Laboratory Handbook University of Minnesota.
Hospital and Clinic,1991 A guide to test characteristics and selection for use at UMHC *Bulletin Europeen de*
Physiopathologie Respiratoire ,1986 Some issues include the transactions of the Entretiens de physio pathologie respiratoire
Report of the President University of Texas,1901 **EPA Publications Bibliography, 1984-1990: Report summaries**
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