

Measuring Lung Capacity Lab

Name _____ Date _____ Class _____

Background

Human lung capacity can be measured in several ways. One way is by using a complex piece of laboratory equipment called a spirometer. However, lung capacity can also be measured by using a balloon.

Several different lung volume measurements can be made. The amount of air taken in or expelled during normal breathing is about 500 cm^3 . This volume of air called the **tidal volume**. This amount of air provides enough oxygen for a person who is resting. The largest possible amount of air which can be exhaled after drawing in a deep breath is 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 is the **residual volume**.

Purpose

- To measure your vital capacity
- To make comparisons among factors that may affect vital capacity
- To compare your experimental data with lung capacity data obtained from a spirometer

Materials

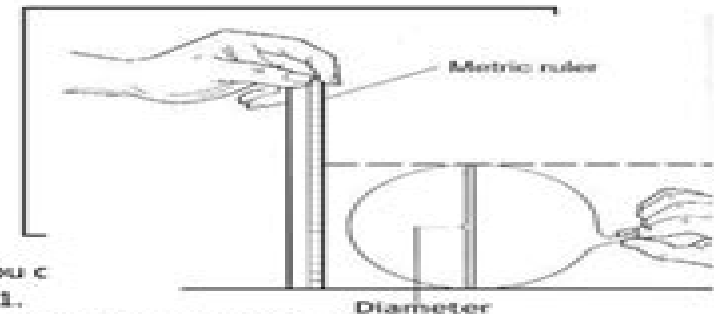
Round Balloon Metric Ruler

Procedure

Part A: Measure your Height in centimeters: _____

Part B. Vital Capacity

- Stretch a balloon several times
- Take as deep a breath as possible. Then exhale all the air you can
- Measure and record the diameter of the balloon in Table 4-1.
- Run four more trials. Record the diameter of the balloon for each trial in the data table.



Part C. Conversion of Diameters to Volume

Lung volume is expressed in cubic centimeter units (cm^3). ($1,000 \text{ cm}^3$ is slightly more than a quart.)

- To convert from balloon diameter to volume, locate the balloon diameter on the horizontal axis of Figure 6-2. Follow this number up to the heavy line, then move across to locate the corresponding volume.

For example, if your balloon diameter is 14.5 cm, then the corresponding lung volume is 1500 cm^3 .

- Convert each diameter for vital capacity to volume.
- Record the volumes in Table 4-1.

Lung Capacity Measurements Lab Manual

Padhraic Smyth



Lung Capacity Measurements Lab Manual:

Respiratory Care Clinical Competency Lab Manual Sandra T Hinski, 2013-12-10 Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text **Anatomy and Physiology,**

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Kinanthropometry and Exercise Physiology Laboratory Manual Roger Eston, Thomas Reilly, 2001 Kinanthropometrics is the study of the human body size and somatotypes and their quantitative relationships with exercise and nutrition This is the second edition of a successful text on the subject

Laboratory Manual for Human Physiology Carl Gottfried Hartman, 1914

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Laboratory Manual of Human Anatomy and Physiology II Dr. Remeth J. Dias, Dr. Kuldeep U. Bansod, Dr. Kailas Mali, Mr. Taufik M. Kazi, 2024-02-16 We are very happy to put forth Laboratory Manual of Human Anatomy Physiology II We have made this manual student friendly and relevant in terms of achieving curriculum outcome Now we believe that the manual has been fulfilling the aspirations of teachers and students too This manual is prepared as per PCI Education Regulations 2014 for degree course in pharmacy The methods of all the experiments are reviewed and added from the recent research papers so that the advancement in the methods or apparatus can be addressed This manual is designed for Outcome Based Education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum theoretical background resources used procedure precautions observations result conclusion references and related questions Moreover assessment scheme is also given to help the student and teacher to know what to be assessed This manual contains all the practicals suggested and given in the syllabus In addition we have divided each experiment into various parts that make the students understanding easier Moreover it will also help the students to find out the resource material required and what they should use In each experiment the questions are given as Questions Identified that are incorporated for both teacher and students to learn more about the practicals We have also included the references for learning more if needed by the teacher or student The manual also focuses on the student's skill and learning hence each experiment is having activity for the students In addition if the teacher feels that he should assign some more activity or other than included in the experiment he can We acknowledge the help and co operation extended by various persons in bringing out this manual We are highly indebted to the authors of various books and articles mentioned in references or further reading material which became a major source of information for writing this manual We also thank the publishers designers and printers who graciously worked hard to publish this manual in time

Comprehensive Respiratory Therapy Exam Preparation Guide Scanlan, Al Heuer, Narcisco E. Rodriguez, 2017-11-15 Issued with access code for online course materials

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A Laboratory Manual for the Solution of Problems in Biology Richard Worthy Sharpe, 1911

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Reviewing **Lung Capacity Measurements Lab Manual**: Unlocking the Spellbinding Force of Linguistics

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