

Lung Volumes and Capacities

Measurement of lung volumes provides a tool for understanding normal function of the lungs as well as disease states. The breathing cycle is initiated by expansion of the chest. Contraction of the diaphragm causes it to flatten downward. If chest muscles are used, the ribs expand outward. The resulting increase in chest volume creates a negative pressure that draws air in through the nose and mouth. Normal exhalation is passive, resulting from "recoil" of the chest wall, diaphragm, and lung tissue.

In normal breathing at rest, approximately one-tenth of the total lung capacity is used. Greater amounts are used as needed (i.e., with exercise). The following terms are used to describe lung volumes (see Figure 1):

Tidal Volume (TV)

The volume of air breathed in and out without conscious effort.

Inspiratory Reserve Volume (IRV)

The additional volume of air that can be inhaled with maximum effort after a normal inspiration.

Expiratory Reserve Volume (ERV)

The additional volume of air that can be forcibly exhaled after normal exhalation.

Vital Capacity (VC)

The total volume of air that can be exhaled after a maximum inhalation: $VC = TV + IRV + ERV$

Residual Volume (RV)

The volume of air remaining in the lungs after maximum exhalation (the lungs can never be completely emptied).

Total Lung Capacity (TLC)

$$TLC = VC + RV$$

Minute Ventilation

The volume of air breathed in 1 minute: $(TV)(\text{breaths/minute})$

In this experiment, you will measure lung volumes during normal breathing and with maximum effort. You will correlate lung volumes with a variety of clinical scenarios.

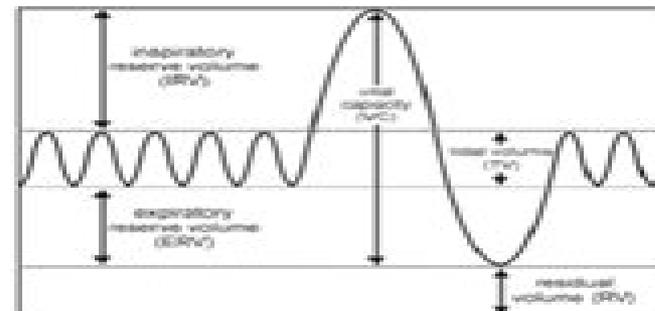


Figure 1

Measuring Lung Capacity Lab Answer Key

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Comprehensive Respiratory Therapy Exam Preparation Albert J. Heuer, Narciso E. Rodriguez, 2020-02-11

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Kendig and Chernick's Disorders of the Respiratory Tract in Children Edwin L. Kendig, Robert W. Wilmott, Victor Chernick, 2012-01-01 This definitive text on respiratory disease in children has been completely updated and revised for the 7th Edition Several new chapters have been added including information on the impact of environmental pollution on lung disease in children Provides the most authoritative and comprehensive coverage available of basic science and clinical problems related to pediatric lung disease Report, 1954 **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 *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

Coders' Desk Reference Med-Index Division Staff Medicode, Medicode, 1999-11

Manual of Pulmonary Function Testing Gregg Ruppel, 1994

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

Report of the School Board of the City of Springfield, Massachusetts Springfield (Mass.). School Board, 1923

Respiratory Care, 1999

California Journal of Science Education, 2001

Proceedings of Share Share Inc, 1979

Conference Digest - International Electrical, Electronics Conference and Exposition,

Research Report, 2008

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

Cystic Fibrosis "GAP" Conference Report ,1979 *The Journal of Respiratory Diseases* ,1994 **Bio-medical Engineering** ,1976

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