

# Lab 11 PhysioEx Respiratory System Mechanics Lab Report

## Activity 1: Measuring Respiratory Volumes & Calculating Capacities

Post your experimental data below. You may use the table provided or cut and paste the table from your PhysioEx lab report.

Radius (mm)	Flow (mL/min)	TV (mL)	ERV (mL)	IRV (mL)	RV (mL)	VC (mL)	FEV <sub>1</sub> (mL)	TLC (mL)	BPM
5.00	7500	500	1200	2091	1200	4791	5541	5941	15
4.50	4920	328	787	2028	1613	2143	2308	4856	15
4.00	3075	205	492	1246	1905	1962	1422	3871	15
3.50	1500	120	285	782	2112	1150	822	3262	15
3.0	975	65	156	401	2244	621	436	2865	15

Answer the following questions.

1. What would be an example of an everyday respiratory event the ERV button simulates?
2. What additional skeletal muscles are used in an ERV activity?
3. What was the FEV<sub>1</sub> (%) at the initial radius of 5.00 mm?
4. What happened to the FEV<sub>1</sub> (%) as the radius of the airways decreased?
5. Explain why the results from the experiment suggest that there is an obstructive, rather than restrictive, pulmonary problem.

# Answers To The Physioex Respiratory System Lab

**Elaine N. Marieb**



## **Answers To The Physioex Respiratory System Lab:**

Physioex 6. 0 Timothy Stabler,Greta Peterson,Lori Smith,2005-03 KEY BENEFIT PhysioExtrade 6 0 for Human Physiologyconsists of 13 modules containing 40 physiology lab simulations that may be used to supplement or substitute for wet labs KEY TOPICS Cell Transport Mechanisms and Permeability Skeletal Muscle Physiology Neurophysiology of Nerve Impulses Endocrine System Physiology Cardiovascular Dynamics Frog Cardiovascular Physiology Respiratory System Mechanics Chemical and Physical Processes of Digestion Renal System Physiology Acid Base Balance Blood Analysis Serological Testing Histology Tutorial For all readers interested in lab simulations PhysioEx 6. 0 for A and P Peter Zao,Timothy N. Stabler,2006 Physioex 6 0 Laboratory Simulations In Physiology With Worksheets For A And P Cd rom Version **PhysioEx 5. 0** Peter Zao,Timothy Stabler,Greta Peterson,2004-05 Includes 36 laboratory simulations and a histology slide tutorial Cover *PhysioEx for Human Physiology Stand-Alone* Timothy Stabler,2002-11 This special edition of PhysioEx TM has been specifically written for use with Germann Stanfield Principles of Human Physiology PhysioEX TM consists of nine physiology lab simulations that may be used to supplement or substitute for wet labs This easy to use software allows readers to repeat labs as often as they like perform experiments without harming live animals and conduct experiments that may be difficult to perform in a wet lab environment due to time cost or safety concerns Readers also have the flexibility to change the parameters of an experiment and observe how outcomes are affected Available in both CD ROM and web www physioex com formats PhysioEx TM is fully supported by a written lab manual that walks readers through each lab step by step It is an ideal complement to any physiology course *PhysioEx for Human Physiology* Timothy Stabler,2003

**The Software Encyclopedia** ,1988 **American Book Publishing Record** ,2003 **PhysioEx 7.0 for A&P** Peter Z. Zao,2008 **PhysioEx 3.0** Peter Z. Zao,1999-08 Presenting seven simulation based experiments and a histology tutorial PhysioEx tm V 2 0 invites students on an interactive journey of discovery as they conduct experiments that demonstrate complex physiological processes Easy to use and navigate the CD ROM provides a safe electronic environment that allows students to repeat experiments including difficult wet labs Using PhysioEx tm students can easily change parameters to provide and evaluate multiple outcomes It s an ideal complement to any physiology laboratory **Pulmonary Function Testing** David A. Kaminsky,Charles G. Irvin,2018-10-18 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

*Human Anatomy and Physiology* Elaine Nicpon Marieb,2005-02 Human Anatomy and Physiology Lab Manual Cat Version is a clearly written and comprehensive lab manual that guides readers through well planned lab activities and feature illustrations and full color photographs that help readers better understand the material Designed to stand alone or for use with other materials the manual offers hands on experience with anatomical structures and physiological concepts to aid in mastery of the subject The cat version also includes detailed dissection exercises that clearly leads readers step by step through the dissection process Packaged with the book the new PhysioEx Version 6 0 includes new Serological Testing laboratory simulations a revised and redesigned Histology Tutorial and online worksheets with multiple choice answers PhysioEx Version 6 0 is available in CD ROM format and on the Web at [www.physioex.com](http://www.physioex.com) The Human body An Orientation The Microscope and Its Uses The Cell Histology The Integumentary System and Body Membranes The Skeletal System The Muscular System The Nervous System The Endocrine System The Circulatory System The Respiratory System The Digestive System The Urinary System The Reproductive System Development and Heredity Surface Anatomy Dissection Exercises For all readers interested in learning the basics of human anatomy and physiology

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