

NAME _____

LAB TIME/DATE _____

REVIEW SHEET EXERCISE

37A

Respiratory System Physiology

Mechanics of Respiration

1. For each of the following cases, check the column appropriate to your observations on the operation of the model lung.

Change	Diaphragm pushed up		Diaphragm pulled down	
	Increased	Decreased	Increased	Decreased
In internal volume of the bell jar (thoracic cage)		✓	✓	
In internal pressure	✓			✓
In the size of the balloons (lungs)		✓	✓	
In direction of air flow	Into lungs	Out of lungs ✓	Into lungs ✓	Out of lungs

2. Base your answers to the following on your observations in question 1.

Under what internal conditions does air tend to flow into the lungs? ↑ thoracic volume, and ↓ pressure.

Under what internal conditions does air tend to flow out of the lungs? Explain why this is so. ↓ thoracic volume, ↑ pressure, gases move in the direction that tends to equalize pressure inside and outside the "container."

3. Activation of the diaphragm and the external intercostal muscles begins the inspiratory process. What effect does contraction of these muscles have on thoracic volume, and how is this accomplished? ↑ thoracic volume. The diaphragm moves inferiorly, increasing the superior/inferior dimension; the ribs swing up and out, increasing the lateral and anterior/posterior dimensions.

4. What was the approximate increase in diameter of chest circumference during a quiet inspiration? (student data) inches
During forced inspiration? (student data) inches

Laboratory Manual 37 Respiratory System And Physiology

Clyde Frank Cairy



Laboratory Manual 37 Respiratory System And Physiology:

Human Anatomy and Physiology Laboratory Manual Elaine Nicpon Marieb, 1985 **Human Anatomy and Physiology**
Elaine N. Marieb, 1989 Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton, 2018-01-24 Using
an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for
Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding
allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and
photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The
dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including
common histology slides and depictions of proper procedures accentuate the lab manual's usefulness by providing clear
visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you
demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student
progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework
for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply
knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough
checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical
imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced
where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and
shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and
managing lab activities Evolve site includes activities and features for students as well as resources for instructors A
Laboratory Manual of Physiology for Veterinary Students Clyde Frank Cairy, 1948 *Anatomy and Physiology, Laboratory*
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contains dynamic and applied activities and experiments that help students both visualize anatomical structures and
understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information
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Physiology Practical Manual, 1st Edition - E-Book Rashmi Ramanathan,2023-07-10 This practical manual delivers clinically relevant and updated concepts as per the Competency Based Medical Education CBME curriculum This student friendly practical manual has an observation table column at the end of most of the chapters Competencies with specific learning objectives SLOs are mentioned at the start of each chapter The CBME curriculum mandates the skill certification of competencies in the log book By using this practical manual students can directly fill their responses in the predrawn tables Thus the practical hours can be completely used for developing psychomotor skills and skill certification Full colour photos labelled diagrams and illustrations will help to precisely understand and perform the procedural steps in clinical examination Clinical scenarios charts graphs calculations were given in the last few chapters Discussion questions with answers will be useful for the students to score more during the practical viva voice Examples of practical OSCE were provided at the end of most of the chapters Amphibian and Mammalian experiments with graphs were provided for postgraduate students This book will be useful to MBBS MD and MSC physiology students dental paramedical and allied health science students **A**

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exercise physiology into practical applications **Instructors Resource Guide** Elaine N. Marieb, Barbara Stewart, 2001-11-02 **Diagnostic Evaluation of the Respiratory System** Claudio Sorino, 2017-07-17 This book is a practical guide to the diagnosis of respiratory disorders helping clinicians recognise signs and symptoms decide on the most appropriate diagnostic tests and to interpret the results Divided into four sections the book covers respiratory system assessment evaluation of respiratory function diagnostic imaging and invasive diagnostic techniques The imaging section includes radiograph computed tomography angiography and ultrasonography The invasive diagnostic procedures section covers bronchoscopy lung biopsy transbronchial needle aspiration and more Video assisted thoracic surgery as a diagnostic tool is also discussed Authored by recognised expert Professor Claudio Sorino from University of Palermo this useful manual is enhanced by clinical images and figures Key Points Practical guide to diagnosis of respiratory disorders Helps clinicians recognise signs and symptoms choose appropriate diagnostic tests and interpret results Includes chapter on video assisted thoracic surgery as a diagnostic tool Authored by recognised expert from University of Palermo **A Laboratory Text Book of Practical Chemistry; Or, Introduction to Qualitative Analysis** Wm. George Valentin, 1871 **A laboratory text book of practical chemistry; or, Introduction to qualitative analysis** William George Valentin, 1871 *A System of Practical Surgery* Sir William Fergusson, 1870 *On the Functions of the Sympathetic System of Nerves* Edward Meryon, 1872 **Manual of Obstetrics E-book** Muralidhar Pai, Prahalad Kushtagi, Daftary, SUDIP Chakravarti, 2015-10-15 This book is based on the classic Holland and Brews Manual of Obstetrics The fourth edition is comprehensive with clear concepts concrete up to date knowledge and student friendly one stop obstetrics textbook Basic principles investigations management options as well as the recent advances have all been explained in a simple and systematic manner The information given is evidence based and as per international guidelines and management protocols Salient Features Every chapter has been thoroughly revised and updated with recent advances in Obstetrics The book has been made comprehensive with addition of new content algorithms figures drug regimens and tables Several new chapters Decision Making in Obstetrics Management of Post caesarean Pregnancy Obstetric History Taking Obstetric Examination Labour Care Ready Reckoner added Chapters on Specimens and Instruments in Obstetrics have been added to aid students to prepare for viva voce The format is modified to help not only students in obstetrics but also the practicing obstetricians Points to Remember added with each chapter highlighting important information **Notes on Syphilis. With an Appendix on the Unity of the Syphilitic Poison. (Reprinted from the 'Manchester Medical and Surgical Reports').** Samuel Messenger Bradley, 1872 *The Deformities of the Human Body* Bernard Edward Brodhurst, 1871 **Index Medicus**, 1887

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