

45

Respiratory Organs

MATERIALS NEEDED

Textbook
 Human skull (sagittal section)
 Human torso model
 Larynx model
 Thoracic organs model
 Compound light microscope
 Prepared microscope slides of the following:
 Trachea (cross section)
 Lung, human (normal)
 Animal lung with trachea (fresh or preserved)
 Bicycle pump
 Prepared microscope slides of the following:
 Lung tissue (smoker)
 Lung tissue (emphysema)

SAFETY

- Wear disposable gloves when working on the fresh or preserved animal lung demonstration.
- Wash your hands before leaving the laboratory.

PURPOSE OF THE EXERCISE

To review the structure and function of the respiratory organs and to examine the tissues of some of these organs.



LEARNING OUTCOMES ABR

After completing this exercise, you should be able to

1. Locate the major organs and structural features of the respiratory system.
2. Describe the functions of these organs.
3. Sketch and label features of tissue sections of the trachea and lung.

The organs of the respiratory system include the nose, nasal cavity, paranasal sinuses, pharynx, larynx, trachea, bronchial tree, and lungs. They mainly process incoming air

and transport it to and from the atmosphere outside the body and the air sacs of the lungs.

In the alveoli (air sacs), gas exchanges take place between the air and the blood of nearby capillaries. The blood, in turn, transports gases to and from the alveoli and the body cells. This entire process of transporting and exchanging gases between the atmosphere and the body cells is called *respiration*.



PRACTICE

PROCEDURE A—Respiratory Organs

1. Review section 19.2 titled “Organs of the Respiratory System” in chapter 19 of the textbook.
2. As a review activity, label figures 45.1–45.4.
3. Examine the sagittal section of the human skull, and locate the following features:

nasal cavity

nostril (nares)
 nasal septum
 nasal conchae
 meatuses

paranasal sinuses

maxillary sinus
 frontal sinus
 ethmoidal sinuses (ethmoidal air cells)
 sphenoidal sinus

4. Observe the larynx model, the thoracic organs model, and the human torso model. Locate the features listed in step 3. Also locate the following features:

pharynx

nasopharynx
 oropharynx
 laryngopharynx

larynx (palpate your larynx)

vocal cords
 false vocal cords (vestibular folds)
 true vocal cords (vocal folds)
 thyroid cartilage (“Adam’s apple”)
 cricoid cartilage

Laboratory Exercise 45 Respiratory Organs

Kevin T. Patton



Laboratory Exercise 45 Respiratory Organs:

Laboratory Manual of First Year Science for High Schools Joseph Luther Thalman, Ada Louise Weckel, 1911

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 Lab Experiments Microbiology Brf Gerard J. Tortora, Christine L. Case, Ted R. Johnson, 1986 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 **Anatomy and Physiology, Laboratory Manual** Connie Allen,Valerie

Harper,2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition 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 they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course *Human Anatomy and Physiology* John W. Hole,1990 [Electromyography in Clinical Practice](#) Bashar Katirji MD, FACP,2018-08-16 Continuing the unique case based learning approach to fill the gap between theory and practice the third edition of *Electromyography in Clinical Practice* addresses the advances in neuromuscular medicine including anterior horn cell disorders peripheral neuropathies neuromuscular junction disorders and myopathies It is the perfect resource for neurologists physiatrists neurosurgeons orthopedic surgeons rheumatologists physical therapists and pain management specialists neuromuscular and clinical neurophysiology fellows as well as the resident trainee and medical student interested in the diagnosis and management of the most common disorders encountered in the EMG lab The book is divided into two major parts the first an introduction to clinical electromyography and the second is separated into 27 case studies The cases focus on localized disorders in the lower and upper extremities and end with a selection of generalized disorders Each case begins with a detailed tabulated EMG study followed by several questions and a detailed analysis of the study then takes into account patient history the physical examination EMG readings treatment and patient follow up to sharpen the clinicians problem solving skills **Laboratory Manual for Anatomy and Physiology** Connie Allen,Valerie Harper,2020-12-10 Laboratory Manual for Anatomy Physiology 7th Edition 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 they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course While the Laboratory Manual for Anatomy and Physiology is designed to complement the latest 16th edition of *Principles of Anatomy Physiology* it can be used with any two semester A P text **Oxford Textbook of Children's Sport and Exercise Medicine** Neil Armstrong,Willem van Mechelen,2017 Now consisting of fifty innovative

chapters authored by internationally recognised scientists and clinicians the extensively revised third edition of the Oxford Textbook of Children's Sport and Exercise Medicine is the fundamental reference work on paediatric exercise medicine and sport science Using a scientific evidence based approach and new insights into understanding the exercising child and adolescent this title covers a complex and rapidly evolving field Designed to inform challenge and support all involved in the study and treatment of the exercising child and adolescent the Oxford Textbook of Children's Sport and Exercise Medicine presents complex scientific and medical material in an accessible and understandable manner With extensive sections on Exercise Science Exercise Medicine Sport Science and Sport Medicine chapters comprehensively cover training physical activity in relation to health issues the physiology of the young athlete and injury using the research and practical experience of a renowned author team Fully illustrated and extensively revised new topics and fully updated material complement the state of the art approach of previous editions With an increased focus on molecular exercise physiology close to 75% of the content found in this edition is new material reflecting the many advances and developments across this discipline

Equine Sports Medicine and Surgery - E-Book Kenneth W Hinchcliff, Andris J. Kaneps, Raymond J. Geor, Emmanuelle Van Erck-Westergren, 2023-12-15 Get evidence based guidelines to keeping athletic horses healthy and physically fit Equine Sports Medicine and Surgery 3rd Edition provides a comprehensive guide to exercise physiology and training within a clinical context along with a detailed review of all diseases affecting horses participating in racing and competition Not only does this text discuss the physiological responses of each body system to exercise but it covers nutritional support the prevention of exercise induced disorders and lameness and modification of training regimens New to this edition are topics such as drug effects on performance and the use of cloud based technologies for monitoring performance as well as new content on exercise physiology welfare conditioning farriery behavior and vision Written by an expert team of international authors each print purchase of this authoritative all in one resource comes with an ebook NEW Chapters in this edition include History of Equine Exercise Physiology Welfare of Equine Athletes in Sport and the Social License to Operate The Connected Horse focusing on innovative cloud based technologies used to monitor athletic horses Conditioning of the Equine Athlete Principles of Sport Horse Farriery Epidemiology and Control of Infectious Respiratory Disease in Populations of Athletic Horses Behavior and Behavioral Abnormalities in Athletic Horses Vision and Disorders of Vision in Performance Horses Detection of Drug Use in Athletic Horses Drug Effects on Performance of the Equine Athlete Comprehensive coverage is based on sound research and evidence based practice and provides an understanding of the physiologic processes underlying the responses of horses to exercise and physical conditioning from musculoskeletal and respiratory disorders to nutrition and physical rehabilitation International perspective on equine athletics includes guidelines pertinent to different geographic areas and racing jurisdictions More than 1 000 images include medical illustrations and clinical photos depicting equine anatomy testing and treatment scenarios as well as radiographic ultrasonographic CAT and MRI imaging to support

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Exercise, Exercise Training and the Immune System, 1993 **Potter & Perry's Fundamentals of Nursing ANZ edition - eBook** Jackie Crisp, Clint Douglas, Geraldine Rebeiro, Donna Waters, 2020-10-15 Now in its 6th edition this trusted reference for nursing students supports the development of safe effective and person centred practice The text has been comprehensively revised by nursing leaders and experts from across the spectrum of clinical practice education research and health policy settings and a highly experienced editorial team which includes Jackie Crisp Clint Douglas Geraldine Rebeiro and Donna Waters Chapters of Potter Perry's Fundamentals of Nursing 6e engage students with contemporary concepts and clinical examples designed to build clinical reasoning skills Early chapters introduce frameworks such as Fundamentals of Care and cultural safety as ways of being and practising as a nurse These frameworks are then applied in clinical and practice context chapters throughout Reflection points in each chapter encourage curiosity and creativity in learning including the importance of self care and self assessment 79 clinical skills over 41 chapters updated to reflect latest evidence and practice standards including 4 new skills Fully aligned to local learning and curriculum outcomes for first year nursing programs Aligned to 2016 NMBA Registered Nurse Standards for Practice and National Safety and Quality Health Service Standards Easy to understand for beginning students Focus on person centred practice and language throughout 44 clinical skills videos including 5 NEW available on Evolve along with additional student and instructor resources Accompanied by Fundamentals of nursing clinical skills workbook 4e An eBook included in all print purchases Additional resources on Evolve eBook on VitalSource Instructor resources Testbank Critical Reflection Points and answers Image collection Tables and boxes collection PowerPoint slides Students and Instructor resources 44 Clinical Skills videos Clinical Cases Fundamentals of nursing case studies Restructured to reflect current curriculum structure New chapters on end of life care and primary care New online chapter on nursing informatics aligned to the new National Nursing and Midwifery Digital Health Capabilities Framework including a new skill and competency assessment tool *Laboratory Animal Medicine* Lynn C. Anderson, Franklin M. Loew, Fred W. Quimby, 2002-06-20 A volume in the American College of Laboratory Animal Medicine series this second edition has over 40% new material including the addition of six new topics and many others that are completely rewritten The book comprehensively covers the biological and disease aspects of laboratory animal medicine while examining other aspects such as the biohazards associated with the use of animal experimentation and factors complicating the bioethics of animal research **Fundamentals of Nursing - E-Book** Patricia A. Potter, Anne G.

Perry, Patricia A. Stockert, Amy Hall, Wendy R. Ostendorf, 2025-01-15 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Fundamentals Learn the concepts and skills and develop the clinical judgment you need to provide excellent nursing care Fundamentals of Nursing 12th Edition prepares you to succeed as a nurse by providing a solid foundation in critical thinking clinical judgment nursing theory evidence based practice and person centered care in all settings With illustrated step by step guidelines this book makes it easy to learn important skills and procedures Care plans are presented within a nursing process framework that is coordinated with clinical judgement and case studies show how to apply concepts to nursing practice From an expert author team led by Patricia Potter and Anne Perry this bestselling nursing textbook helps you develop the understanding and clinical judgment you need to succeed in the classroom and in your career

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