

Lab 7: Respiratory Anatomy

Learning outcomes of the lab exercises:

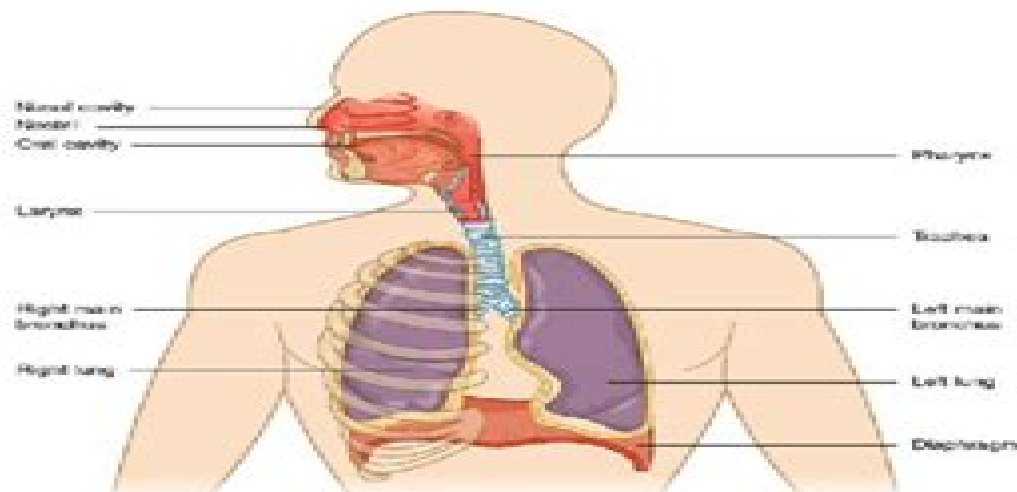
1. Identify the structures of the human respiratory tract on models
2. State the main function of each respiratory structure
3. Determine the pathway of airflow into the lungs
4. Compare the histological features of the various respiratory system tissues

Background

"The major organs of the respiratory system function primarily to provide oxygen to body tissues for cellular respiration, remove the waste product carbon dioxide, and help to maintain acid-base balance. Portions of the respiratory system are also used for non-vital functions, such as sensing odors, speech production, and for straining, such as during childbirth or coughing" *OpenStax A&P, pg. 1034*

The respiratory system can be functionally divided into two zones:

1. Respiratory zone: for gas exchange, consists of respiratory bronchioles and alveoli.
2. Conducting zone: portions of respiratory system whose function is to conduct air to the alveoli



OpenStax A&P, pg. 1034

Structures of the Respiratory Tract

You must be able to identify all of the terms in **bold** on models for the lab exam.

A. Nasal Cavity

- Air enters the nasal cavity via the **external nares**, opening into the **nasal vestibule**
- The nasal cavity is divided midline by the **nasal septum**, which is cartilaginous anteriorly and vomer bone in the posterior.
- The nasal cavity connects to the pharynx via the **internal nares**.

Laboratory Manual 37 Respiratory System And Physiology

Kevin T Patton, PhD



Laboratory Manual 37 Respiratory System And Physiology:

Human Anatomy and Physiology Elaine N. Marieb, 1989 *A Laboratory manual for elementary zoölogy* Libbie Henrietta Hyman, 1919 *Instructors Resource Guide* Elaine N. Marieb, Barbara Stewart, 2001-11-02 *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

Part - Anatomy & Physiology Laboratory Manual - E-Book Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human

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equipment list at the beginning of each activity allowing instructors flexibility in choosing the lab activities that will best work in their facility Laboratory Manual for Exercise Physiology Second Edition With HKPropel Access exposes students to a broad expanse of tests that are typically performed in an exercise physiology lab and that can be applied to a variety of professional settings As such the text serves as a high quality resource for basic laboratory testing procedures used in assessing human performance health and wellness Note A code for accessing HKPropel is not included with this ebook but may be purchased separately 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 **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 **AAEVT's Equine Manual for Veterinary Technicians** Deborah Reeder, Sheri Miller, DeeAnn Wilfong, Midge Leitch, Dana Zimmer,2012-07-30 AAEVT s Equine Manual for Veterinary Technicians offers a compendium of information on the care and treatment of horses for equine veterinary technicians Highly accessible and easy to use the book builds on the basics of equine care to provide a complete reference for equine nursing and technical skills AAEVT s Equine Manual for Veterinary

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Essentials of Laboratory Animal Science: Principles and Practices P. Nagarajan, Ramachandra Gudde, Ramesh Srinivasan, 2021-07-23 This book comprehensively reviews the anatomy physiology genetics and pathology of laboratory animals as well as the principles and practices of using laboratory animals for biomedical research It covers the design of buildings used for laboratory animals quality control of laboratory animals and toxicology and discusses various animal models used for human diseases It also highlights aspects such as handling and restraint and administration of drugs as well as breeding and feeding of laboratory animals and provides guidelines for developing meaningful experiments using laboratory animals Further the book discusses various alternatives to animal experiments for drug and chemical testing including their advantages over the current approaches Lastly it examines the potential effect of harmful pathogens on the physiology of laboratory animals and discusses the state of art in in vivo imaging techniques The book is a useful resource for research scientists laboratory animal veterinarians and students of laboratory animal medicine *A Laboratory Text Book of Practical Chemistry; Or, Introduction to Qualitative Analysis* Wm. George Valentin, 1871 *Resources in Education*, 1992 Serves as an index to Eric reports microform **On the Treatment of Pulmonary Consumption by Hygiene, Climate, and Medicine in Its Connexion with Modern Doctrines** James Henry Bennet, 1871 **A laboratory text book of practical chemistry; or, Introduction to qualitative analysis** William George Valentin, 1871 *Index Medicus*, 1887

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