

Lab 7: Respiratory Anatomy

Learning outcomes of the lab exercises:

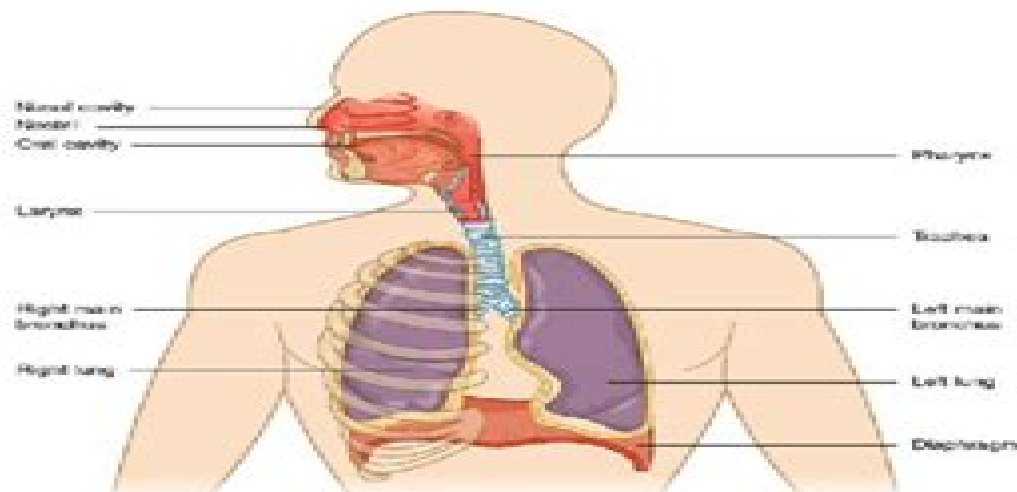
1. Identify the structures of the human respiratory tract on models
2. State the main function of each respiratory structure
3. Determine the pathway of airflow into the lungs
4. Compare the histological features of the various respiratory system tissues

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**.

Lab Guide Respiratory Anatomy

**Edgar Henry Summerfield
Bailey, Hamilton Perkins Cady**



Lab Guide Respiratory Anatomy:

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

Foundations of Anatomy and Physiology - ePub Ellie Kirov, Alan Needham, 2023-04-01 This new practice manual is designed to provide students with the conceptual foundations of anatomy and physiology as well as the basic critical thinking skills they will need to apply theory to practice in real life settings Written by lecturers Dr Ellie Kirov and Dr Alan Needham who have more than 60 years teaching experience between them the book caters to nursing health science and allied health students at varying levels of understanding and ability Learning activities are scaffolded to enable students to progress to more complex concepts once they have mastered the basics A key advantage of this manual is that it can be used by instructors and students in conjunction with any anatomy and or physiology core textbook or as a standalone resource It can be adapted for learning in all environments including where wet labs are not available Can be used with any other textbook or on its own flexible for teachers and students alike Scaffolded content suitable for students varying learning requirements and available facilities Concept based practical activities can be selected and adapted to align with different units across courses Provides a range of activities to support understanding and build knowledge including theory application and experimentation Activities can be aligned to learning requirements and needs may be selected to assist pre class in class post

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Laboratory Guide provides a comprehensive hands on introduction to the field of zoology Knowledge of the principal groups of animals is fundamental to understanding the central issues in biology This full color lab manual provides a diverse selection of exercises covering the anatomy physiology behavior and ecology of the major invertebrate and vertebrate lineages Great care has been taken to provide information in an engaging student friendly way The material has been written to be easily adapted for use with any introductory zoology textbook

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web answer i lemon and orange ii tomatoes and guava iii sour milk curd iv tamarind question 18 a student detected the ph of four unknown solution a b c and d as