45

Respiratory Organs

MATERIALS NEEDED

Textbook
Human skulf (segittal section)
Human skulf (segittal section)
Human torso model
Laryns reade:
Thorse's organs model
Compound light microscope
Prepared microscope slides of the following:
Traches (cross section)
Lung, human (normal)
Animal lung with traches (fresh or preserved)
Bicycle pump
Prepared microscope slides of the following:
Lung sissue (smoker)
Lung sissue (smoker)

SAFETY

- Wear disposable gloves when working on the tresh 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 APR

After completing this exercise, you should be able to

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

The organs of the respiratory system include the mose, rusul cavity, paranaval sizoses, pharynx, larynx, trachea, bronchial tree, and bungs. 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 absoli (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 regulation.



PRACTICE

PROCEDURE A-Respiratory Organs

- Review section 19.2 titled "Organs of the Respiratory System" in chapter 19 of the textbook.
- As a preview activity, label flaggres 45.1-45.4.
- Examine the sagitual section of the human shall, and locate the following features:

massal carrity

mostril (naris)

masal septura

massil conchae

mocatumes.

purposes of signature

maddillacy simes

frontal sinus

ethmoidal sinus (ethmoidal air cells)

aphenoidal sinus

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

pharynx.

nasopharynx

ecopharyons:

htryngopharynx.

laryex (palpate your laryex).

vocal cords

false vocal cords (vestibular folds)

true vocal cords (vocal folds)

thyroid cartilage ("Adam's apple")

ceilcoid cartillage

Laboratory Exercise 45 Respiratory Organs

Bert Atsma, Sandra Hsu

Laboratory Exercise 45 Respiratory Organs:

Lab Experiments Microbiology Brf Gerard J. Tortora, Christine L. Case, Ted R. Johnson, 1986 **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** Laboratory Animal Medicine Lynn C. Anderson, Franklin M. Loew, Fred W. Quimby, 2002-06-20 A John W. Hole, 1990 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 Animal and Exotic Pet Medicine - E-Book Margi Sirois, 2022-01-01 Learn the veterinary technician s role in the care of exotic pets and animals used in biomedical research Laboratory Animal and Exotic Pet Medicine Principles and Procedures 3rd Edition helps you gain the knowledge and skills needed to ensure animal health and well being It covers animal husbandry restraint and handling and diseases and provides guidelines to key clinical procedures such as blood collection medication administration anesthesia and diagnostic imaging Research related information addresses the ethical concerns of exotic pet ownership as well as the benefits and humane use of animals in research Written by noted veterinary technology educator Margi Sirois this text is a must have resource for all caretakers of lab animals Comprehensive coverage prepares you to work with all types of animals by addressing a wide variety of species including rats mice rabbits guinea pigs ferrets hamsters gerbils nonhuman primates amphibians fish reptiles birds farm animals and cats and dogs it also covers topics such as animal species the laboratory setting regulatory guidelines and ethical considerations Consistent organization of each species chapter makes it easy to quickly identify similarities and differences among various laboratory animals Current information on legal moral and ethical issues includes legal requirements the protocols guiding lab animal use animal exploitation and animal rights Discussion of specific uses for each species in biomedical research provides a perspective that helps you explain the benefits of animal use in providing high quality research data Technician Notes highlight important points and provide helpful tips to improve your knowledge and skills Learning objectives key points and chapter review questions make studying easier NEW Comprehensive coverage of poultry includes the increasingly popular backyard chickens as well as commonly performed procedures and in depth information on housing restraint nutrition common diseases diagnostics and therapeutics NEW photographs show the latest technology available in laboratory and exotic animal medicine Laboratory Experiments in Microbiology Ted R. Johnson, Christine L. Case, 1992 Laboratory Manual for Human Biology Bert Atsma, Sandra Hsu, 2002 A variety of approximately 30 lab activities to complete any human biology Report New York State Veterinary College, 1910 Municipal Facts ,1921 Anatomy and Physiology Jav course Marvin Templin, 1989-06 This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course It has a number of features that will help the student learn about the structure and function of the human The Indiana University Catalogue ... Register ... Announcements Indiana University, 1915 of the New York State Veterinary College New York State Veterinary College,1912 **Equine Sports Medicine and** Surgery E-Book Kenneth W Hinchcliff, Andris J. Kaneps, Raymond J. Geor, 2013-07-01 Equine Sports Medicine and Surgery provides the most up to date in depth coverage of the basic and clinical sciences required for management of the equine athlete The unique treatment of exercise physiology and training within a clinical context together with detailed review of all diseases affecting athletic horses makes this the most comprehensive text available The book will provide a thorough grounding in the basic physiology of each body system and in particular the responses of each body system to exercise and training that will be separate but highly relevant to the succeeding sections on clinical disorders of each body system The highly respected editors have brought together an internationally renowned team of 50 contributors producing the ultimate reference for veterinarians students horse owners and all those involved in the world of equine athletics High quality artwork including relevant radiographic ultrasonographic CAT scan and MRI images aid understanding and diagnosis Provides a truly international perspective including guidelines pertinent to different geographic areas and racing jurisdictions In depth coverage of the role of the veterinarian in the management of athletic horses Explores the use of complementary therapies

Cumulated Index Medicus ,1964 Report of the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis Henry Phipps Institute,1906 Report of the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis University of Pennsylvania. Henry Phipps Institute,1907 Most of the vols contain reprints of articles contributed by members of the staff to various journals Annual Report of the Henry Phipps Institute for the Study, Treatment, and Prevention of Tuberculosis Henry Phipps Institute,1907 Annual Report ,1915

Essentials of Human Anatomy John W. Hole,1992 Annual Report of the Agricultural Experiment Station of the University of Wisconsin for the Year ... University of Wisconsin. Agricultural Experiment Station,1915

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