LABORATORY EXERCISE 48

LYMPHATIC SYSTEM

MATERIALS NEEDED

terathook
hamon torso
matteriacal chart of the lymphatic system
congrunted microscope
prepared microscope
lymph node section
human thymns section
human spectors section

The lymphatic system is closely associated with the cardiovascular system and includes a network of capillaries and vessels that assist in the circulation of body fluids. These lymphatic capillaries and cussels provide pathways through which excess fluid can be transported away from intercellular spaces within tissues and returned to the bloodstream.

The organs of the lymphatic system also help to protect the tissues against infections by filtering particles from lymph and by supporting the activities of lymphocytes that furnish immunity against specific diseasecausing agents.

PURPOSE OF THE EXERCISE

To review the structure of the lymphatic system and to observe the microscopic structure of a lymph node, thymus, and spleen.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

- locate and identify the major lymphatic pathways in an anatomical chart or model;
- locate and identify the major chains of lymph nodes in an anatomical chart or model;
- describe the structure of a lymph node:
- identify the major microscopic structures of a lymph node, thomas, and spleen.

PROCEDURE A— LYMPHATIC PATHWAYS

Review a textbook section on hymphatic purburges.

- 2. As a review activity, label figure 48.1.
- Complete Part A of Laboratory Report 48.
- Observe the human torso and the anatomical chart of the lymphatic system and locate the following features:

lyinphatic vessels.

lyringsh mosters.

lymphatic trunks

humation transic

intestinal mark

intercostali trunic

become home diastinal trunk

substitution trunks

pagedar trank

collecting docts

thoracic (left hyanphatic) duct

right framphistic duct.

internal jugatur veins

subclavian veins

PROCEDURE B—LYMPH NODES

- Review a textbook section on hough wodes.
- 2. As a review activity, label figure 48.2.
- Complete Part B of the laboratory report.
- Observe the anatomical chart of the lymphatic system and the human torso, and locate the clusters of lymph nodes in the following regions:

czerwiciał regiona

ascillary region.

impuinal region.

peticle cavity.

abdominal cavity

thoracic cavity

Lab Report 48 Lymphatic System Anatomy

British Association for the Advancement of Science

Lab Report 48 Lymphatic System Anatomy:

Hole's Human Anatomy & Physiology John Hole.1996 **Human Anatomy and Physiology** John W. Hole, 1990 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 guestions 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 body offer immediate and exciting examples of physiological concepts Easy to evaluate

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