

LABORATORY EXERCISE 48

LYMPHATIC SYSTEM

MATERIALS NEEDED

textbook
human torso
anatomical chart of the lymphatic system
compound microscope
prepared microscope slides:
 lymph node section
 human thymus section
 human spleen 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 vessels 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 disease-causing 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

1. locate and identify the major lymphatic pathways in an anatomical chart or model;
2. locate and identify the major chains of lymph nodes in an anatomical chart or model;
3. describe the structure of a lymph node;
4. identify the major microscopic structures of a lymph node, thymus, and spleen.

PROCEDURE A—
LYMPHATIC PATHWAYS

1. Review a textbook section on *lymphatic pathways*.

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

lymphatic vessels

lymph nodes

lymphatic trunks

 lumbar trunk

 intestinal trunk

 intercostal trunk

 bronchomediastinal trunk

 subclavian trunk

 jugular trunk

collecting ducts

 thoracic (left lymphatic) duct

 right lymphatic duct

internal jugular veins

subclavian veins

PROCEDURE B—LYMPH NODES

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

cervical region

axillary region

inguinal region

pelvic cavity

abdominal cavity

thoracic cavity

Laboratory Report 48 Lymphatic System Answers

RM Cervero



Laboratory Report 48 Lymphatic System Answers:

Human Anatomy and Physiology John W. Hole,1990 Federation Proceedings Federation of American Societies for Experimental Biology,1974 **Cumulated Index Medicus** ,1965 **Human Anatomy and Physiology** Joan G. Creager,1991-04 **Report of the ... Meeting** ,1888 **Journal of the American Medical Association** American Medical Association,1925 Experiment Station Record United States. Office of Experiment Stations,1912 **Report of the Annual Meeting** British Association for the Advancement of Science,1888 **Report of the ... Meeting of the British Association for the Advancement of Science** British Association for the Advancement of Science,1888 *Year Book* Carnegie Institution of Washington,1911 List of the names of persons engaged in the various activities v 10 p 243 257 Nuclear Science Abstracts ,1975 **Report of the ... Meeting of the British Association for the Advancement of Science** ,1893 *Oncology* ,2008 Report of the ... Meeting of the British Association for the Advancement of Science British Association for the Advancement of Science. Meeting,1890 **Classified List of Publications of the Carnegie Institution of Washington** Carnegie Institution of Washington,1920 **Biological Abstracts** Jacob Richard Schramm,1927 Nuclear Power Reactor Instrumentation Systems Handbook Joseph M. Harrer,James G. Beckerley,1973 **The Lancet** ,1893 **British Medical Journal** ,1925 **Archives of Dermatology and Syphilology** ,1923

Unveiling the Magic of Words: A Review of "**Laboratory Report 48 Lymphatic System Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Laboratory Report 48 Lymphatic System Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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