

3rd WEEK: LYMPHATIC SYSTEM

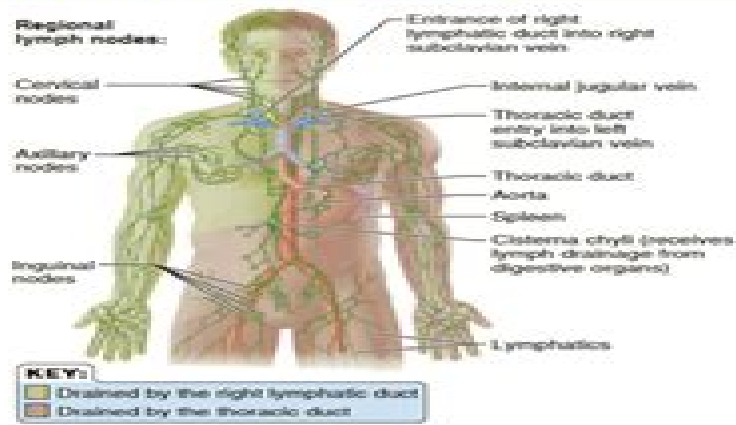


Figure 3. Distribution of lymphatic vessels and lymph nodes

LYMPHATIC VESSELS

- Similar to veins of the cardiovascular system
 - Thin walled
 - Larger vessels have valves
 - Low-pressure, pumpless system
- **Lymph transport is aided by:**
 - Milking action of skeletal muscles (like how skeletal muscles can open valves of veins when it is squeezed by the muscles)
 - Pressure changes in thorax during breathing
 - Smooth muscles in walls of lymphatics

LYMPH NODES

- Lymph nodes help protect the body by removing foreign material such as bacteria and tumor cells from the lymphatic stream by producing **lymphocytes** that function in the immune response
- Lymph nodes filter lymph before it is returned to the blood
 - As lymph is transported toward the heart, it is filtered through the thousands of lymph nodes that cluster along the lymphatic vessels
- Large clusters are found in the **inguinal, axillary, and cervical** regions of the body
- **Harmful materials that are filtered:**
 - Bacteria
 - Viruses
 - Cancer Cells
 - Cell debris
- **Defense cells within lymph nodes:**
 - **Macrophages** – engulf and destroy bacteria, viruses, and other foreign substances in the lymph before it is returned to the blood
 - **Lymphocytes** – respond to foreign substances in the lymphatic stream
- **Lymph nodes** vary in shape and size but most are **kidney-shaped**, less than 1 inch long, and buried in connective tissue

- Each node is surrounded by a **fibrous capsule** from which connective tissue strands called **trabeculae**
 - Divided into compartments by **trabeculae**

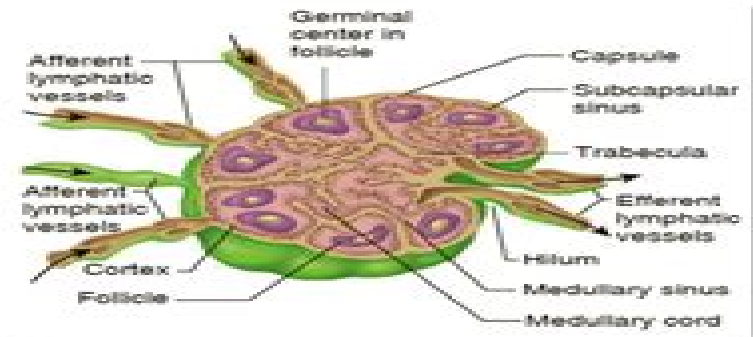


Figure 4. Structure of a lymph node

- Internal framework is a network of **soft reticular connective tissue**
- **Lymphocytes** arise from the redbone marrow but then migrate to the lymph nodes and other lymphoid organs, where they reproduce further
- The **cortex** (outer part) contains collections of lymphocytes called **follicles**
 - **Follicles** – collections of lymphocytes, many of which have **dark-staining** centers called **germinal centers**
 - Germinal centers enlarge when specific B lymphocytes (the B cells) are generating daughter cells **plasma cells** which release antibodies.
 - **T-cells** – the rest of the cortical cells that are in transit
 - Circulate continuously between the blood, lymph nodes, and lymphatic stream
- **Medulla** (inner part)
 - The **medullary cords** are inward extensions of cortical tissue that contain both B and T cells
 - **Phagocytic macrophages** are located in the central medulla of the lymph node

FLOW OF LYMPH THROUGH NODES

1. Lymph enters the convex side through **afferent lymphatic vessels**
2. Lymph flows through a number of sinuses or spaces inside the node
3. Lymph exits through **efferent lymphatic vessels** because there are fewer efferent than afferent vessels, flow is **slowed**
 - It allows time for the lymphocytes and macrophages to perform their protective functions

The Lymphatic System And Body Defenses Answers

Bruce Wingerd



The Lymphatic System And Body Defenses Answers:

Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease Barbara Janson Cohen, Memmler, 1996 Student Notebook and Study Guide to Accompany The Human Body Bruce Wingerd, Patty Bostwick Taylor, 2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd's *The Human Body* reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text's concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online **Anatomy & Physiology**

(includes A&P Online course) E-Book Kevin T. Patton, 2018-01-31 *Anatomy Physiology* includes A P Online course E Book

The Human Body Bruce Wingerd, 2013-02-01 The new edition of Bruce Wingerd's *The Human Body Concepts of Anatomy and Physiology* helps encourage learning through concept building and is truly written with the student in mind Learning Concepts divide each chapter into easily absorbed subunits of information making learning more achievable Since students in a one semester course may have little experience with biological and chemical concepts giving them tools such as concept statements concept check questions and a concept block study sheet at the end of each chapter help them relate complex ideas to simple everyday events The book also has a companion Student Notebook and Study Guide available separately that reinvents the traditional study guide by giving students a tool to help grasp information in class and then reinforce learning outside of class With additional powerful options like PrepU and the ADAM Interactive Anatomy Online Student Lab Activity Guide students have access to learning activities to help them study understand and retain critical course information

The Human Body: Concepts of Anatomy and Physiology Bruce Wingerd, Patty Bostwick Taylor, 2020-04-06 The new edition of Bruce Wingerd's *The Human Body Concepts of Anatomy and Physiology* helps encourage learning through concept building and is truly written with the student in mind Learning Concepts divide each chapter into easily absorbed subunits of information making learning more achievable Since students in a one semester course may have little experience with biological and chemical concepts giving them tools such as concept statements concept check questions and a concept block study sheet at the end of each chapter help them relate complex ideas to simple everyday events The book also has a companion Student Notebook and Study Guide available separately that reinvents the traditional study guide by giving students a tool to help grasp information in class and then reinforce learning outside of class **Exploring Biology in the Laboratory: Core Concepts** Murray P. Pendarvis, John L. Crawley, 2019-02-01 *Exploring Biology in the Laboratory Core Concepts* is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of

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Gina Misiroglu,2009-10-01 Kids ask the darndest things and here are the answers all in one helpful book Anyone who has ever been a kid raised a kid or spent any time with kids knows that asking questions is a critical part of being a kid Kids have curious minds and they come up with some very interesting questions Why do dogs bark Why is the sky blue Why do people have to grow old Questions like these are how kids find out about the world and these questions deserve answers But the truth is adults don t always know the answers The Handy Answer Book for Kids and Parents comes to the rescue Written with a child s imagination in mind this easy to understand book is a launching pad for curious young minds and a life raft for parents at wits end It addresses nearly 800 queries with enough depth and detail to both satisfy the curiosity of persistent young inquisitors and provide parents with a secure sense of a job well done It ll equip every parent for those difficult absurd or sometimes funny questions from their kids such as Why do people speak different languages Why do I cry How can fish breathe underwater Can people who die see and talk with living people after they are gone Why do women in some countries wear veils How did my life begin How does a vacuum cleaner pick up dirt How does my body know to wake up when morning comes With numerous photos and illustrations this tome is richly illustrated and its helpful bibliography and extensive index add to its usefulness A launching pad for inquisitive young minds and a life raft for parents who are at their wits end The Handy Answer Book for Kids and Parents is a book that every parent needs and every kid will covet *Study Guide for*

Memmler's The Human Body in Health and Disease, Enhanced Edition Kerry L. Hull,Barbara Janson Cohen,2020-05-15 Help your students maximize their study time improve their performance on exams and succeed in the course with this updated Study Guide to accompany Memmler s The Human Body in Health and Disease Fourteenth Edition The questions in this edition have been fully updated and revised to reflect the changes within the main text and the labeling and coloring exercises are taken from the illustrations designed for the book Filled with empowering self study tools and learning activities for every learning style this practical Study Guide follows the organization of the main text chapter by chapter helping students every step of the way toward content mastery The variety of learning activities with three main components are designed to facilitate student learning of all aspects of anatomy physiology and the effects of disease not merely to test

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