

### 3<sup>rd</sup> WEEK: LYMPHATIC SYSTEM

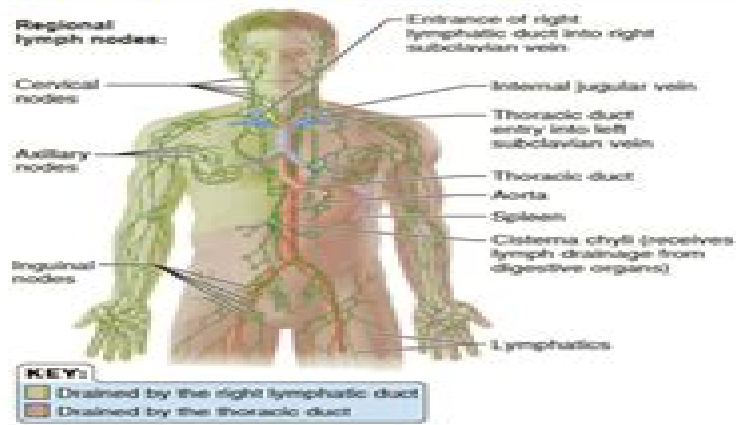


Figure 3. Distribution of lymphatic vessels and lymph nodes

#### 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**

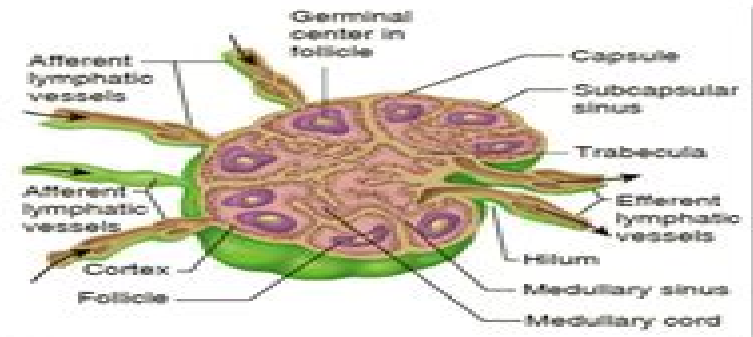


Figure 4. Structure of a lymph node

- 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

# Chapter 1the Lymphatic System And Body Defenses Key

**Kent M. Van De Graaff,R. Ward Rhees**



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**Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease** Barbara Janson Cohen, Memmler, 1996

**Advanced Targeting of the Lymphatic System** Namdev Dhas, Jayvadan K. Patel, Yashwant V. Pathak, 2024-09-11 This book goes in depth about the lymphatic system and the functions of the lymphatic organs lymphatic tissues and lymphatic vessels The book addresses various types of diseases in which the lymphatic system can act as a targeting site for drug absorption and suggests strategies to treat these different infections of the lymphatic system This book is intended for academicians who work in fields related to the lymphatic system novel drug delivery systems pharmaceutical science novel material sciences as well as professionals in the medical nursing or other health care industries

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**Memmler's Structure and Function of the Human Body** Barbara J. Cohen, Dena Lin Wood, 2000 completely revised and updated this edition makes normal anatomy and physiology easy to comprehend and retain In this edition more emphasis is placed on the practical basic knowledge of anatomy and physiology needed for those entering the health care arena All new illustrations help to enhance the information presented in each chapter A glossary of key terms for first time science students study questions and new health boxes discussing general health issues are included Each chapter also includes a special interest box that provides a detailed look at normal physiological processes Lecturers Click here to order a Review Copy of this title [Clinical Procedures for Medical Assisting](#) Barbara Ramutkowski, Kathryn A. Booth, Donna Jeanne Pugh, Barbara Prickett-Ramutkowski, Leesa Whicker, 2004-07 Medical Assisting 2e addresses the most current competencies for CMA certification CPR procedures coding and insurance billing requirements HIPPA regulations OSHA guidelines and clinical diagnostic testing such as hemoglobin A1c diabetes testing It also includes coverage of timely issues such as medical response to bioterrorism which none of the competitors include Coverage of A P will be increased significantly It retains its thorough coverage of procedures It trains students on clinical procedures infection control anatomy and physiology assisting with patients medical emergencies and first aid laboratory procedures nutrition pharmacology diagnostic equipment and much more *Study Guide Essential Biology with Physiology* Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website *Clinical Companion to Accompany Medical-surgical Nursing* Lois White, Gena Duncan, 2001 This useful pocket sized book is a reference for the conditions most frequently

encountered in clinical situations While developed primarily as a supplement to Medical Surgical Nursing An Integrated Approach 2E to which it is cross referenced the Companion may also be used as a stand alone reference

**Human Anatomy & Physiology** Eldra Pearl Solomon, Richard R. Schmidt, Peter James Adragna, 1990 Foundations of Adult Health Nursing Lois White, 2005 Foundations of Adult Health Nursing is written following the Nursing Process format The clinical chapters have been revised to include Nursing Management sections for each disorder emphasizing the nurse's role in providing competent client care Nursing Outcomes Classification NOC and Nursing Interventions Classification NIC have been identified in each Nursing Care Plan A Case Study included in each chapter uses critical thinking questions to assist the user through the nursing process and to develop a customized plan of care for the client in the scenario The last chapter Integration has been included to assist the user in understanding the complexity of human illness and how a disorder in one body system affects other body systems Special features throughout the book are specially designed to emphasize specific information such as Life Cycle Considerations Client Teaching Infection Control Safety Community Home Health Care Cultural Considerations and Professional Tips Critical Thinking Questions are included throughout the book to encourage the user to apply the chapter's content At the end of each chapter readers will find a Summary and Review Questions along with References Suggested Readings and Resources

Biology Neil A. Campbell, 1996 Accompanying CD ROM has interactive exercises a glossary quizzes and a test builder related to the text in the book

**Schaum's Easy Outline of Human Anatomy and Physiology** Kent M. Van De Graaff, R. Ward Rhee, 2001-07-24 Boiled down essentials of the top selling Schaum's Outline series for the student with limited time What could be better than the bestselling Schaum's Outline series For students looking for a quick nuts and bolts overview it would have to be Schaum's Easy Outline series Every book in this series is a pared down simplified and tightly focused version of its predecessor With an emphasis on clarity and brevity each new title features a streamlined and updated format and the absolute essence of the subject presented in a concise and readily understandable form Graphic elements such as sidebars reader alert icons and boxed highlights stress selected points from the text illuminate keys to learning and give students quick pointers to the essentials Designed to appeal to underprepared students and readers turned off by dense text Cartoons sidebars icons and other graphic pointers get the material across fast Concise text focuses on the essence of the subject Delivers expert help from teachers who are authorities in their fields Perfect for last minute test preparation So small and light that they fit in a backpack

**Holt Biology** Holt Rinehart & Winston, 2003-08 *Essentials of Human Anatomy Physiology* John W. Hole, 1992 **Science Explorer Physical Science** Michael J. Padilla, Ioannis Miaculis, Martha Cyr, Learning Guide for Tortora, Introduction to the Human Body, Third Edition Kathleen S. Prezbindowski, 1994

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