

Figure 3. Distribution of lymphatic vessels and lymph mordles.

#### LYMPHATIC VESSELS

- Similar to veins of the cardiovascular system.
  - Thin wolled
  - Larger vessels have valves 100
  - Low-pressure, pumpless system
- Lymph fransport is aided by:
  - Milking action of skeletal muscles (like how skeletal muscles can open valves of veins when it is squeezed by the musclest
  - Pressure changes in thorax during breathing
  - Smooth muscles in walls of lymphatics

- Lymph nodes help protect the body by removing -34 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
  - Sec. 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 inquinal, axillary, and cervical regions of the body
- Harmful materials that are filtered:
  - - m. Resentancies:
    - Winuses. 100
    - Concer Cells
    - Ciell 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 fissue

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

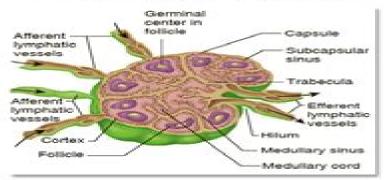


Figure 4. Structure of a lymph node

- Internal framework is a network of soft reticular connective figure
- 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 8 lymphacytes (the 8 cells) are generating daughter cells plasma cells which release antibodies.
  - T-cells the rest of the cortical cells that are in fricams in
    - Circulate continuously between the blood, lymph nodes, and lymphatic stream
- Medulla (inner part):
  - The meduliary cords are inward extensions of cortical tissue that contain both B and T cells
  - Phagocytic macrophages are located in the central medulia of the lymph node

#### FLOW OF LYMPH THROUGH NODES

- Lymph enters the convex side through afferent lymphatic vessels
- Lymph flows through a number of sinuses or spaces inside the node
- 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

# **Lymphatic System And Body Defenses Packet**

Clyde Johnson Dawe, John C. Harshbarger

**Lymphatic System And Body Defenses Packet:** Casein and Milk Protein Product Imports; New Dairy Producing Facilities in the United States of Foreign Based Corporations; U.S. Department of Agriculture's Implementation of the Orderly Marketing Provisions of the Food Security Act of 1985; Cheek Branding in the Milk Production Termination Program; and Processed **Products Inspection Improvement Act** United States. Congress. House. Committee on Agriculture. Subcommittee on Livestock, Dairy, and Poultry, 1987 Human Body I Sol 90,2012-12-01 Updated for 2013 The Human Body I is one book in the Britannica Illustrated Science Library Series that covers today s most popular science topics from digital TV to microchips to touchscreens and beyond Perennial subjects in earth science life science and physical science are all explored in detail Amazing graphics more than 1 000 per title combined with concise summaries help students understand complex subjects Correlated to the science curriculum in grades 5 9 each title also contains a glossary with full definitions for vocabulary **Defense Technical Information Center Thesaurus** Defense Technical Information Center (U.S.), 2000 Educational Media Index.[Complete Series] ,1964 Educational Media Index: Health-safety and home economics Educational Media Council, 1964 Healthy Healing Linda G. Rector-Page, 1998 The latest information on preventive therapies and natural healing Over 1 2 million copies sold Out of Breath Veronica Kun, 1993 **Principles of Human Anatomy** Gerard J. Tortora, 1995 Designed for introductory courses in human anatomy this text assumes no previous study of the human body Instead this book helps to facilitate a basic understanding of this broad discipline by presenting data unified concepts and vocabulary in a manner that is easy for students to understand Although the focus is on anatomy links are made between structures and functions to help students understand anatomical concepts The understanding of structure and function is further enhanced by considering defects and disorders in clinical settings Organized by systems rather than regions each chapter of this seventh edition has been revised This text's coverage of the human anatomy is now complemented by new features including questions with figures colour anatomy photographs improved readability phonetic pronunciations and more exhibits *Principles of Anatomy and Physiology* Gerard J. Tortora, Nicholas Peter Anagnostakos, 1984 The art and illustration program make explanations and concepts easier to comprehend Clinical

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Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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