

Figure 3. Distribution of tymphatic vessels and tymph 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

VIMPH MODES

- 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 fitter 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
- Starge clusters are found in the inguinal, axillary, and cervical regions of the body
- → Harmful materials that are filtered:
 - o Bacteria
 - o Viruses
 - Concer 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
 - Lymphacytes 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 fissue strands called trabeculae
Divided into compartments by trabeculae

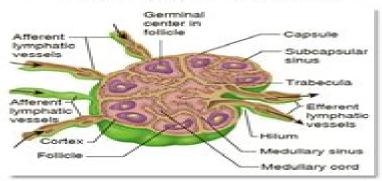


Figure 4. Structure of a lymph node

- Internal framework is a network of soft reflicular connective fissue
- Eymphocytes arise from the redbone morrow 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 <u>dark-staining</u> centers called germinal centers
 - Germinal centers enlarge when specific 8 lymphocytes (the 8 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 fissue 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

The Lymphatic System And Body Defenses Packet

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