

The Lymphatic System & Body Defenses

ABOUT THE LYMPHATIC SYSTEM: An Introduction

THE LYMPHATIC SYSTEM

Consists of 2 sem-independent parts:

- Lymphatic vessels
- Lymphoid tissues & organs

Functions:

- Transport Fluids back to the blood
- Play essential roles in body defense and resistance to disease

LYMPHATIC VESSELS

Interstitial fluid

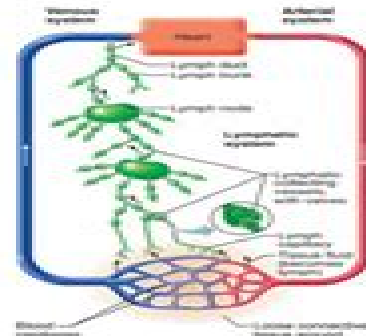
- > fluid that surrounds cells & tissues; formed as a result of blood filtration at the capillaries

Lymph

- > formed when interstitial fluid passes through lymphatic vessels

Lymphatic vessels (lymphatics)

- > network of thin-walled, tubular structures forming an elaborate drainage system that picks up lymph & returns it to the blood
- 1-way system toward the heart
- No pump



Lymph capillaries

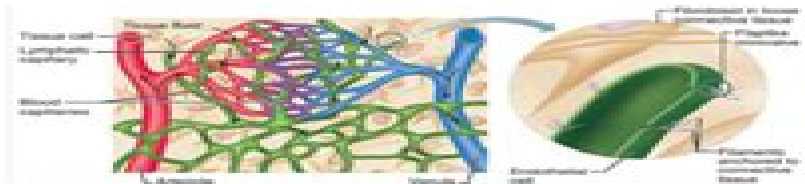
- > Walls overlap to form flap-like minivalves & fluid leaks into them
- > Higher pressure in the inside closes minivalves

Right lymphatic duct

- > drains the lymph from the right arm & the right side of the head & thorax

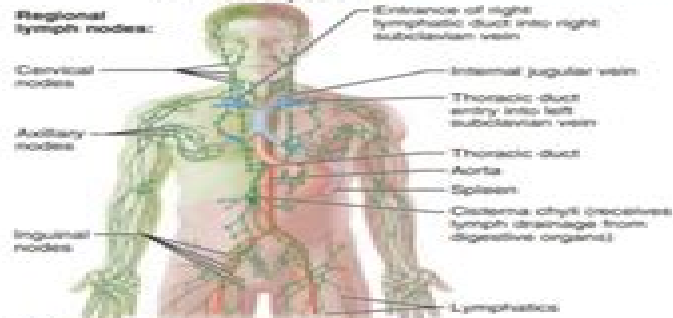
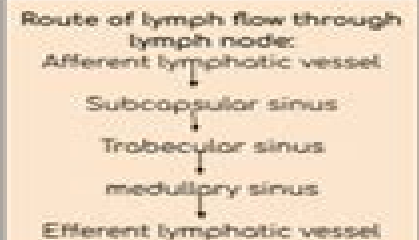
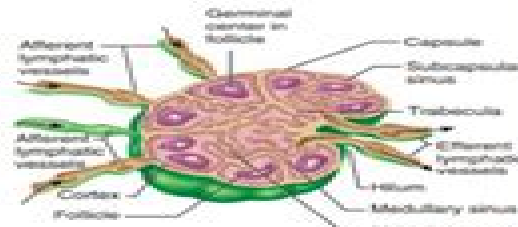
Thoracic duct

- > receives lymph from the rest of the body



LYMPH NODES

- > Kidney-shaped, <1 inch long & cornered by a capsule of dense connective tissue
- > Filter lymph before it is returned to the blood
- > Defense cells
 - Macrophages
 - engulf and destroy foreign substances
 - Lymphocytes
 - provide immune response to antigens
- > Layers
 - Cortex
 - outer part, contains follicles (collections of lymphocytes)
 - Medulla
 - inner part, contains phagocytes macrophages



KEY:
 Drained by the right lymphatic duct
 Drained by the thoracic duct

The Lymphatic System And Body Defenses Study Guide

Richard Bailey



The Lymphatic System And Body Defenses Study Guide:

Embracing the Tune of Term: An Psychological Symphony within **The Lymphatic System And Body Defenses Study Guide**

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