

## THE IMMUNE SYSTEM AND LYMPHATIC SYSTEM STUDY GUIDE

Know the function of the lymphatic system, and the parts of the system (20.1)

**Lymphatic System:** A group of organs and tissues with functions including immunity and fluid homeostasis

The Lymphatic System consists of two main components:

1. **Lymphatic vessels**-blind-ended vessels that transport lymph from the interstitial fluid to the blood
2. **Lymphatic Organs**-tonsils, lymph nodes, spleen and thymus

### **FUNCTIONS:**

#### **A) Regulation of Interstitial Fluid Volume:**

Fluid lost to interstitial fluid via water from plasma must be returned to the circulation which is done by the lymphatic vessels which pick up excess interstitial fluid and deliverer it back to the cardiovascular system

->keeps blood volume and pressure from dropping to low

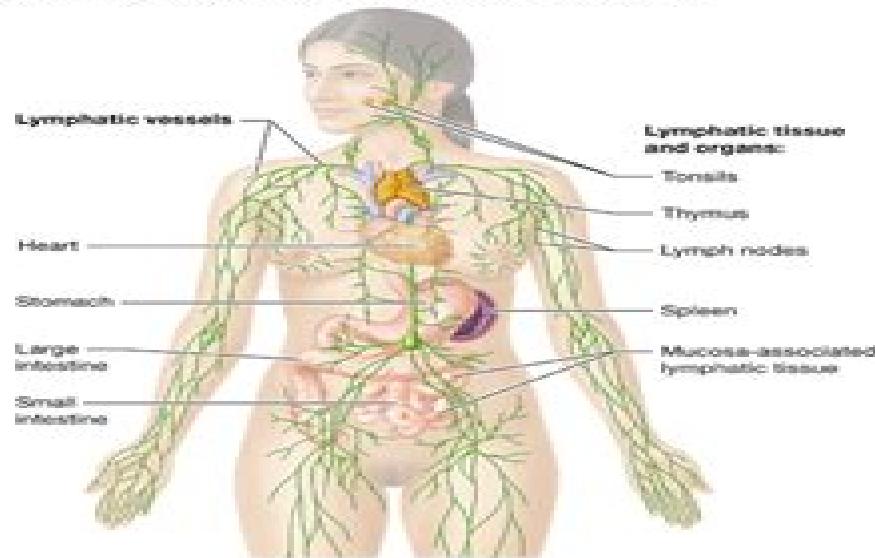
**Lymph:** the watery liquid located within the lymphatic vessels; composition similar to interstitial but with few proteins.

#### **B) Absorption of Dietary Fats:**

Breakdown of fat products too large for capillaries but are able to enter lymphatic vessels in small intestines and are delivered to blood with lymph

#### **C) Immune Function:**

The lymphoid organs filter pathogens from the lymph to the blood



# Lymphatic And Immune System Study Guide

**John McMurry, Susan McMurry**

## **Lymphatic And Immune System Study Guide:**

*Lymphatic System (Speedy Study Guides)* Speedy Publishing, 2014-06-21 The lymphatic system is one of the more complex systems of the body. It is responsible for keeping a person's fluids balanced and putting fluids into the blood. It is also responsible for making leukocytes and antibodies to help fight infection and disease. A chart of how the lymphatic system works would show you all the capillaries, vessels, and nodes that make up the system. Some charts will even show you in detail how things flow in and out of each node and filter out through the body.

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