

MODULE 6 L01

Functions of the Lymphatic System

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1. Lymphatic System Overview

- Components:

- ❖ Lymph

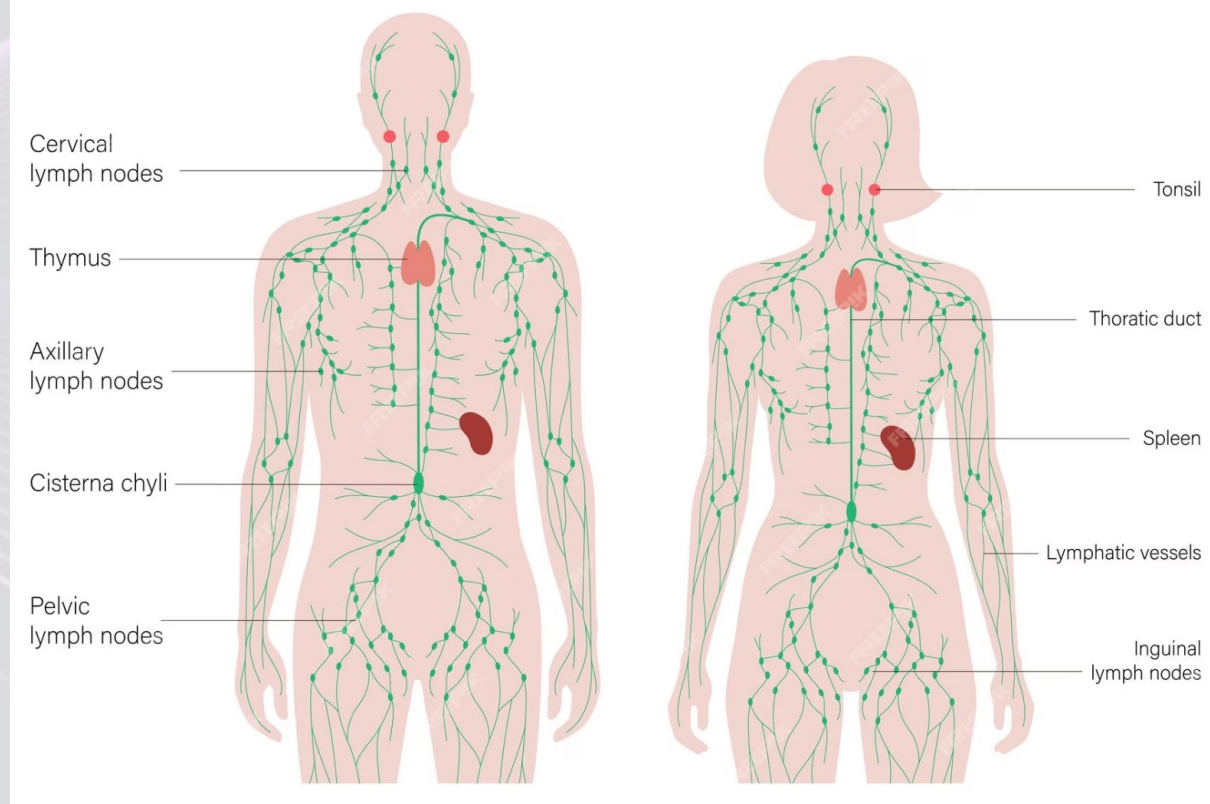
- Interstitial fluid
- Lymphocytes
- Macrophages

- ❖ Lymphatic vessels

- Lymphoid tissues
 - MALT
- Lymphoid organs
 - Lymph nodes
 - Thymus
 - Spleen

- ❖ Lymphocytes

- Produced and stored in lymphoid organs
 - Primary lymphoid structures
 - a) Bone marrow
 - b) Thymus
 - Secondary lymphoid structures
 - a) Lymph nodes
 - b) Tonsils



Lymphatic System Functions

1. Produce, maintain and distribute lymphocytes
2. Maintain normal blood volume and eliminate local variation in the chemical composition of interstitial fluid
 - BP at proximal end of systemic capillary = 35 mm Hg
 - Forces water and solutes: plasma $\xrightleftharpoons{3.6L}$ interstitial fluid
3. Provide an alternative route for transport
 - Nutrients
 - Hormones
 - Waste products

