

FUNCTIONS OF THE LYMPHATIC SYSTEM

- **Reabsorbs excess interstitial fluid:**
 - returns it to the **venous circulation** via the **subclavian vein**
 - maintain blood volume levels
 - prevent interstitial fluid levels from rising out of control.
- **Transport dietary lipids:**
 - transported through **lacteals (gut area)**
 - drain into larger lymphatic vessels
 - eventually into the bloodstream.
- **Lymphocyte development, and the immune response.**

COMPONENTS OF THE LYMPHATIC SYSTEM

1. **Lymph** - The **tissue fluid** that enters lymph capillaries and is conveyed by the lymphatic vessels. Usually clear, watery, and slightly yellow, lymph is **similar in composition to blood plasma**
2. **Lymphatic Vessels**
 - Lymphatic Capillaries
 - Lymphatic Vessels
 - Lymphatic Trunks
 - Lymphatic Ducts
3. **Lymphatic Organs**
 - Thymus
 - Lymph Nodes
 - Spleen
 - Tonsils
4. **Lymphatic cells**

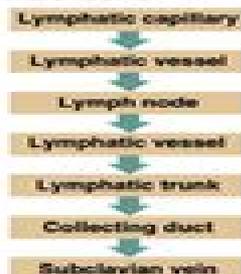


Figure 3. Schema of the organization of the lymphatic vascular system. Upon reaching the collecting duct, the lymph eventually drains to the subclavian vein.

LYMPHATIC CAPILLARIES

Features of structure:

- **Blind end** (not continuous)
- **Single layer of overlapping endothelial cells**
- **More permeable** than that of **blood capillary**
- Absent from **avascular structures**, brain, spinal cord, splenic pulp and bone marrow

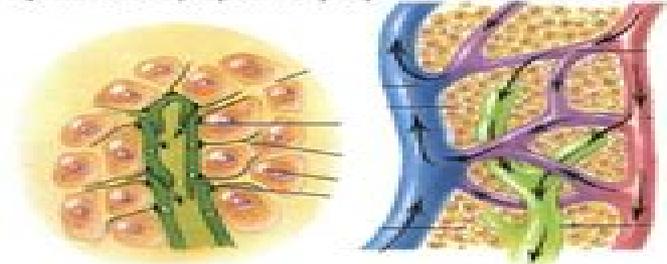


Figure 4. Tissue fluid drains to the lymphatic capillary which begins as a blind end tube

- **Lacteals**
 - **Lymphatic capillary** that **absorbs dietary fats** in the **villi** of **small intestine**
 - Special type of lymphatic capillaries located in the **small intestine**
 - Pick up not only interstitial fluid, but also **dietary lipids** and **lipid-soluble vitamins**
 - The lymph of this area has a **milky color** due to the **lipid** and is also called **chyle**
 - Milky consistency attributable to **fatty acids** and **glycerol** (rich fat content)
 - **Transport intestinal fat** and localized in the **GI tract**

Lymphatic System And Hematology Study Guide

RS Peters



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