

## The Lymphatic System

prepared by: A. A. B.

**Consists of two semi-independent parts:**

- ✓ Lymphatic vessels
- ✓ Lymphoid tissues and organs

### **Lymphatic system functions:**

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

### Lymphatic Characteristics

**Lymph** – excess tissue fluid carried by lymphatic vessels

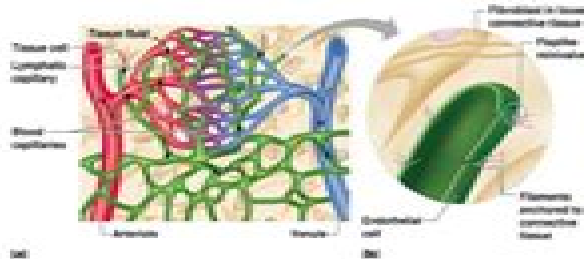
### Properties of Lymphatic Vessels

- ✓ ✓ One way system toward the heart
- ✓ ✓ No pump
- ✓ ✓ Lymph moves toward the heart
- a) Milking action of skeletal muscle
- b) Rhythmic contraction of smooth muscle in vessel walls

### Lymphatic Vessels:

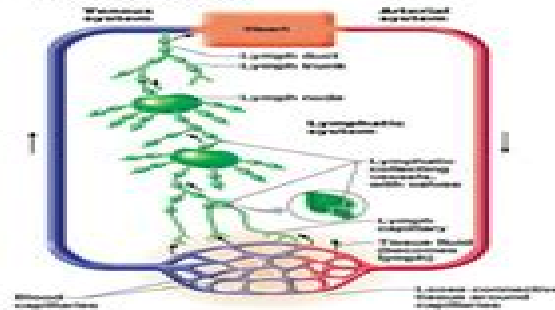
### Lymph Capillaries

- ✓ Walls overlap to form flap-like minivalves
- ✓ Fluid leaks into lymph capillaries
- ✓ Capillaries are anchored to connective tissue by filaments
- ✓ Higher pressure on the inside closes minivalves



### **Lymphatic Collecting Vessels:**

- ✓ Collects lymph from lymph capillaries
- ✓ Carries lymph to and away from lymph nodes
- ✓ Returns fluid to circulatory veins near the heart
- ✓ Right lymphatic duct
- ✓ Thoracic duct



## Lymph

### Materials returned to the blood:

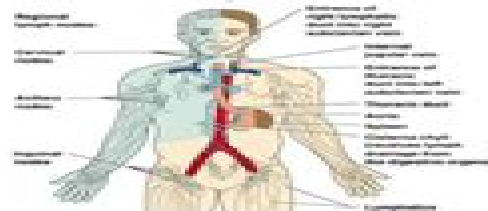
- ✓ Water
- ✓ Blood cells
- ✓ Proteins

**Harmful materials that enter lymph vessels:**

- ☐ Bacteria
- ☐ Viruses
- ☐ Cancer cells
- ☐ Cell debris

### Lymph Node

- ✓ Filter lymph before it is returned to the blood
- ✓ Defense cells within lymph nodes
  - a) **Macrophages** – engulf and destroy foreign substances
  - b) **Lymphocytes** – provide immune response to antigens



# Anatomy Lymphatic System Study Guide

**Kalyani Premkumar**



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