

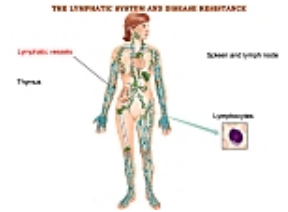
Lymphatic System & Disease Resistance

Directions:

- Click the "Contents" button,
- Open the *Disease Resistance* File,
- Click *Anatomy Overviews*,
- Click *Lymphatic System & Disease Resistance*

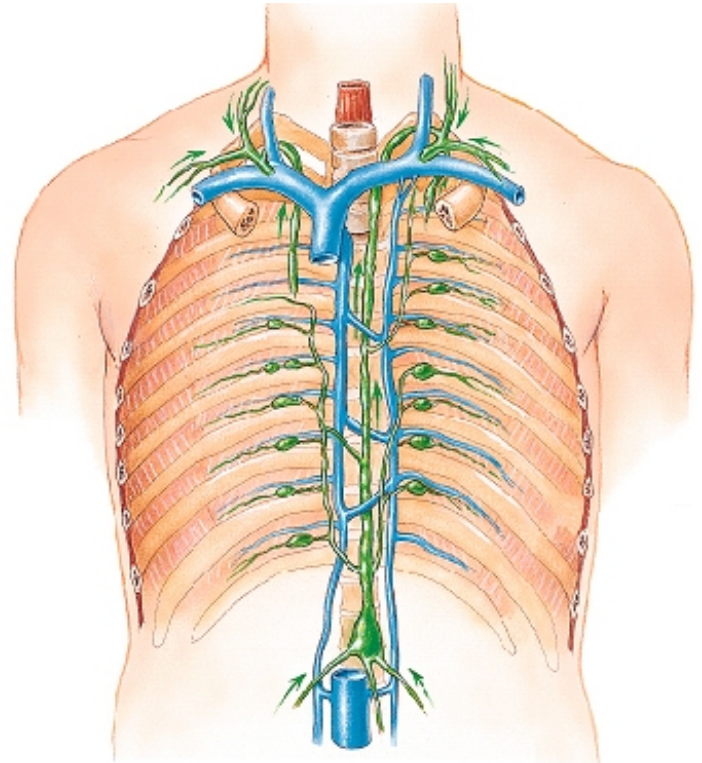


1. Describe lymphatic system functions. _____



2. Click *Lymphatic Vessels*. Locate each of the following:

- Right Lymphatic Duct
- Thoracic (left lymphatic) Duct
- Right and Left Subclavian Veins
- Cisterna Chyli



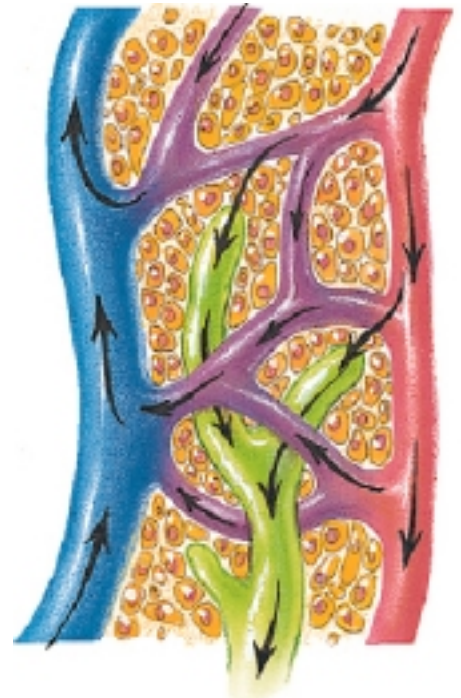
Area drained by
right lymphatic duct



Area drained by
thoracic duct

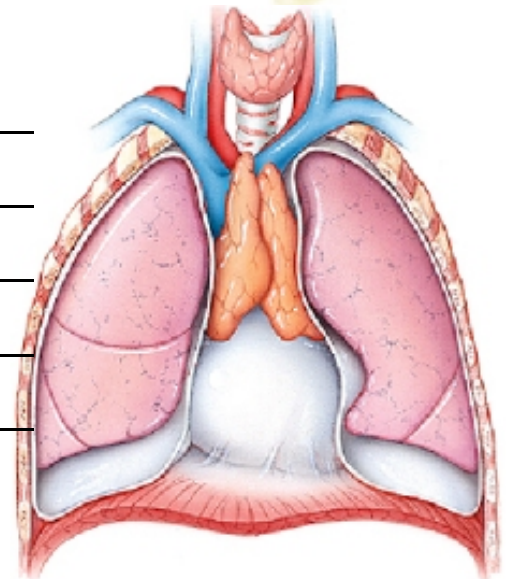
- d. Identify the sections of the body drained by the right lymphatic and thoracic ducts.

- e. Determine the direction of blood and lymph movement between arterioles, blood and lymph capillaries, and venules.
- f. Describe the lymphatic system role with regard to lipids and lipid-soluble vitamins.



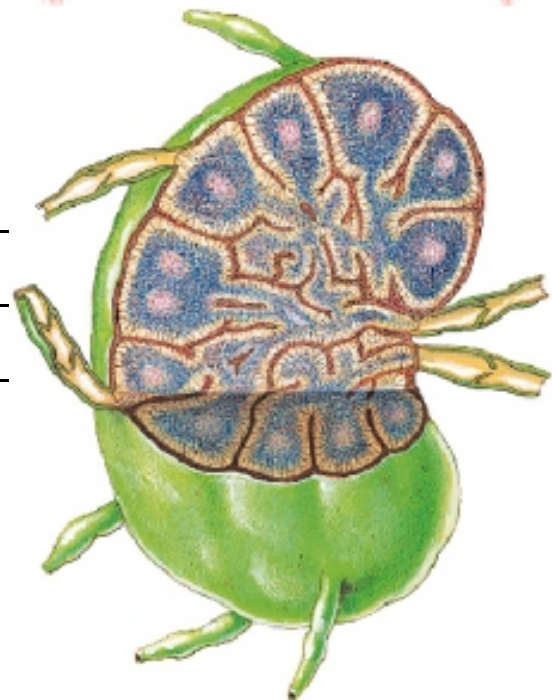
3. Return to the main Lymphatic System page and click the *Thymus Gland*.

- a. Identify the *thymus gland*. Note its location relative to the heart (covered by parietal pericardium in this view).
- b. What are the thymus gland functions? _____



4. Return to the main Lymphatic System page and click the *Spleen and Lymph Node*. Identify each of the following:

- a. *Afferent Lymphatic Vessels*
- b. *Efferent Lymphatic Vessels*
- c. What is the function of the macrophages within the lymph nodes?

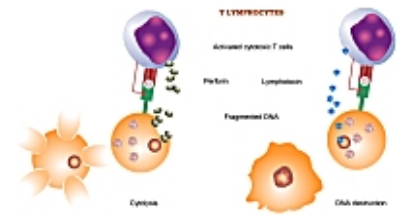


d. Identify spleen functions. _____

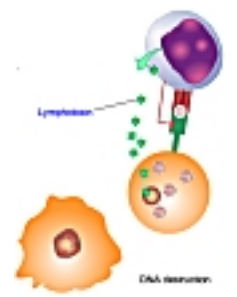


5. Return to the main Lymphatic System page and click the *T Lymphocytes*.

a. Some activated cytotoxic T cells produce *perforin*. What is the function of perforin?



6. b. Some activated cytotoxic T cells produce *Lymphotoxin*. What is the function of lymphotoxin?



7. Return to the main Lymphatic System page and click the *B Lymphocytes*.

Activated B Lymphocytes are transformed into plasma cells that produce antibodies. Name five ways antibodies can destroy foreign cells and substances.

Antibody actions	
	Neutralize antigen
	Immobilize bacteria
	Agglutinate and precipitate antigen
	Activate complement
	Enhance phagocytosis
