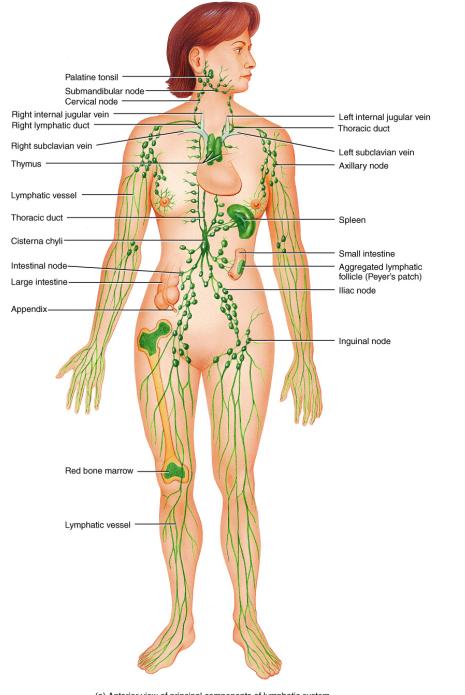
The Lymph System

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Lymphatic System



(b) Areas drained by right lymphatic and thoracic ducts

Area drained by

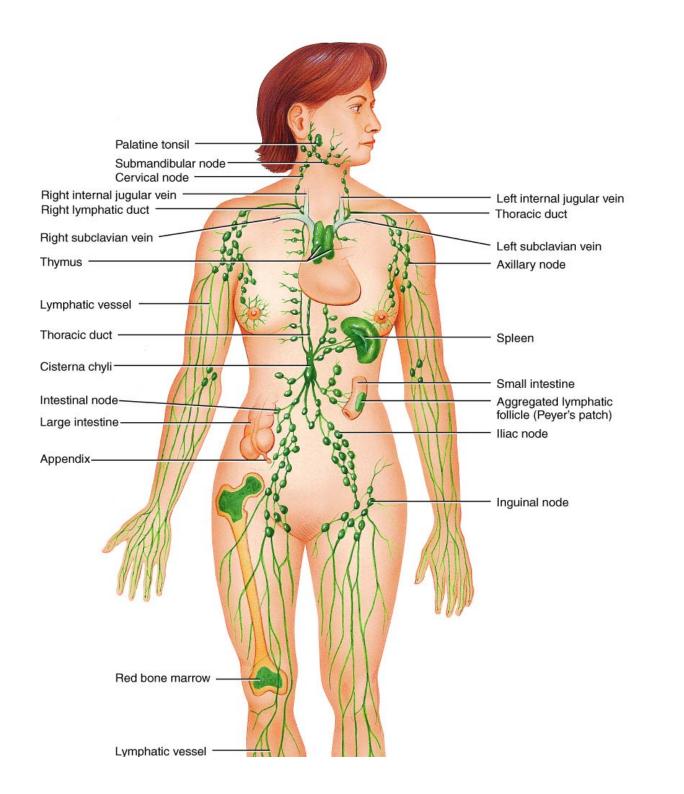
Area drained by thoracic duct

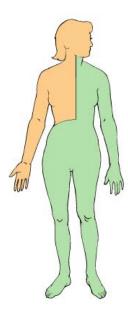
right lymphatic duct

(a) Anterior view of principal components of lymphatic system

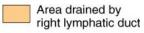
Lymphatic words

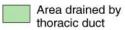
- Lymphangiogram
- Lacteals
- Chyle
- Thoracic duct
- Right lymphatic duct
- Cisterna chyle
- Nodes

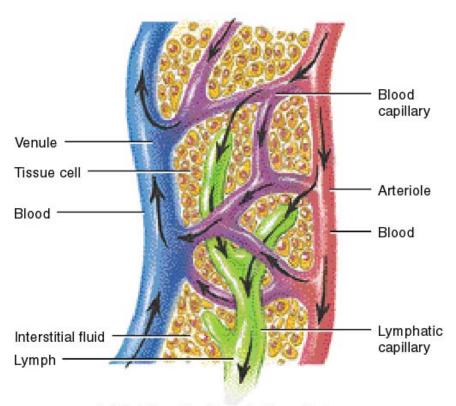




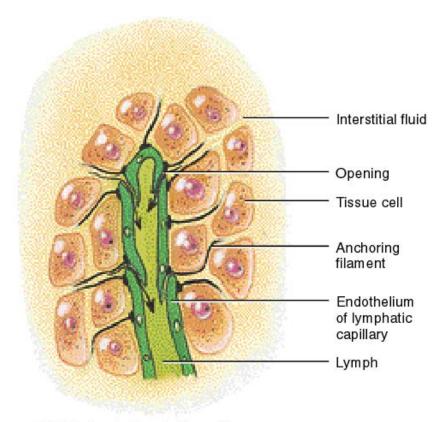
(b) Areas drained by right lymphatic and thoracic ducts



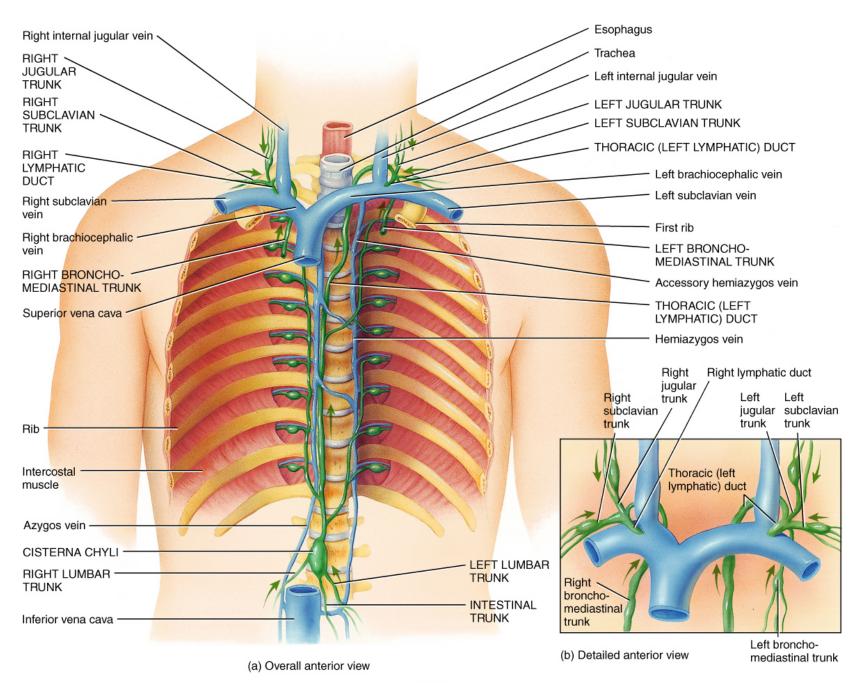




(a) Relationship of lymphatic capillaries to tissue cells and blood capillaries

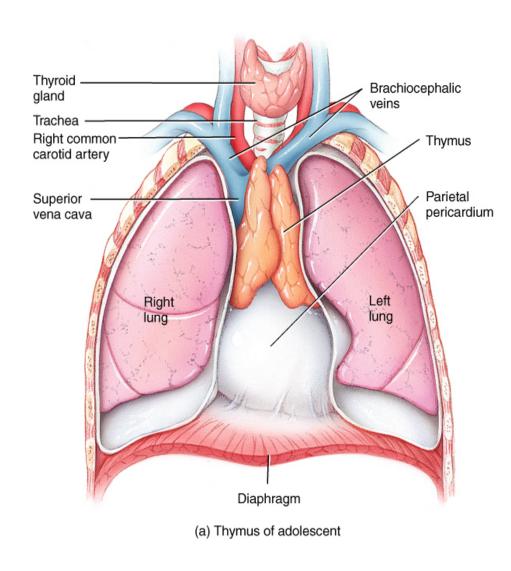


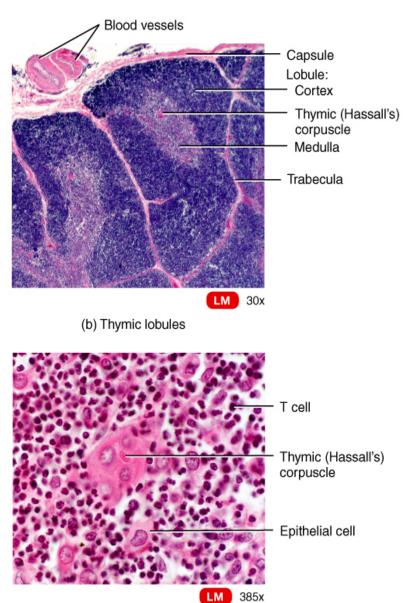
(b) Details of a lymphatic capillary



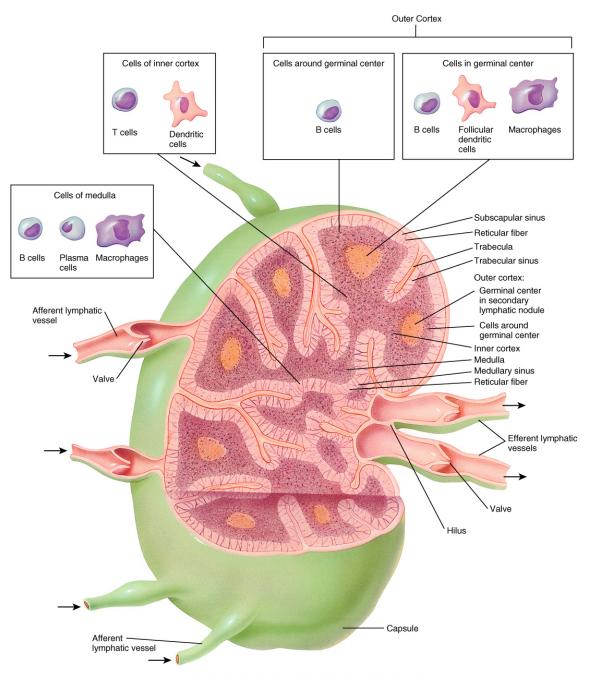
Lymphatic organs

- Nodes
- Spleen
- Thymus
- Tonsils
- Peyer's patches
- Mucosa associated lymphatic tissue

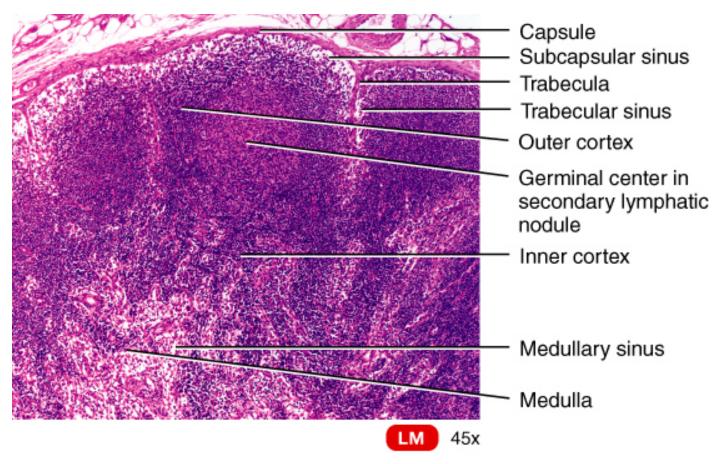




(d) Details of the thymic medulla

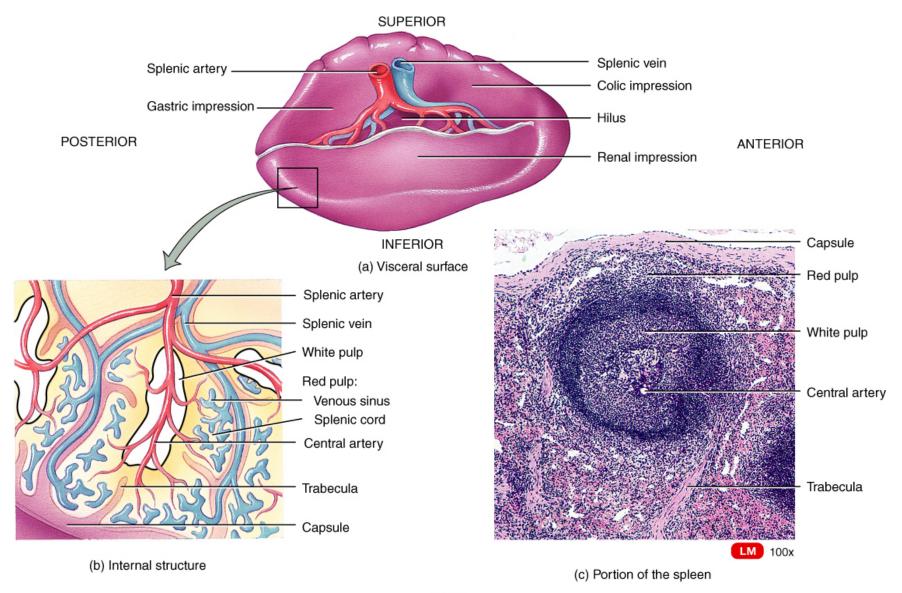


(a) Partially sectioned lymph node showing overall structure 22.06

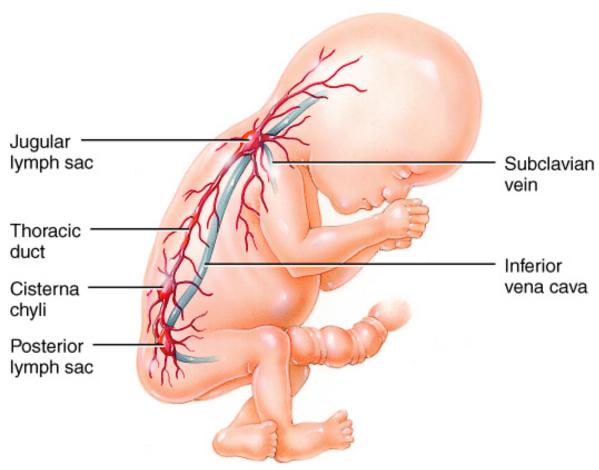


(b) Portion of a lymph node 22.06b

Structure of spleen



Development of lymph



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Invaders

- Bacteria
- Viruses
- Fungi
- Foreign objects
- Cancer cells

Non-Specific Resistance

- Skin and mucous membranes
- Tears, sweat, oil, urine, vomiting, saliva, etc.
- Sebum, lysozymes, gastric acid.
- Interferon
- Complement
- Transferrins
- N-K cells and Phagocytes
- Inflammation
- Fever

Edward Jenner

Created the first Immunization

The disease: smallpox

Specific Resistance

- Cellular immunity via T-Cells. Attack fungi, parasites, viruses, cancer cells and foreign tissue
- Humoral defense with B-cells. B-cells become plasma cells, leave the nodes and produce antibodies (Ig's). Attack bacteria and viruses.
- Both systems have memory cells

AIDS / HIV

- Origin of infection in the U.S.
- Method of viral attack
- Retroviruses
- Delayed symptoms
- Where did the virus come from?
- Who is at risk?
- Treatment / cure???
- Are there other viruses?

Words to Learn

- Eczema
- Immunization
- Septic shock
- Systemic lupus
- Hypersensitivity
- Anaphylactic reaction
- Autoimmune disease

More Words

- Lymphoma and Hodgkins
- Allograft
- Autograft
- Gamma globulin
- Lymphadenopathy
- Splenomegaly
- Xenograft