Lymphatic drainage of the abdominal cavity
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Introduction to lymph
Structure of the lymph node
What is MALT?
Mucosa-Associated Lymphatic Tissue (MALT)

Peyer’s patches in the intestines
• Consists of lymphoid tissues of the
  ○ Intestinal tract
  ○ Genitourinary tract
  ○ Tracheobronchial tree
  ○ Mammary glands
• Un-encapsulated organs
• Contain both T & B lymphocytes (B predominating)
• Structurally these tissues include clusters of lymphoid cells in the lamina propria of Intestinal Villi, Tonsils, Appendix, & Peyer’s Patches.
MALT lymphoma - endoscopy
Lymph drainage of the stomach
Parts of the stomach
Lymph drainage of the small intestine
Lymph drainage of the duodenum
Lymph drainage of the jejunum and ilium
Lymph drainage of the colon
Lymph drainage of the kidney
Lymph drainage of the liver & gallbladder
Cystic lymph nodes
Cystic artery
Right hepatic artery
Hepatic lymph nodes
Lymph node of omental foramen
Celiac trunk
Pyloric lymph nodes
Gastro-duodenal artery
Posterior superior pancreaticoduodenal artery and vein
Pancreatico-duodenal lymph nodes
Left hepatic artery
Celiac lymph nodes
Superior mesenteric lymph nodes
Lymph drainage of pancreas & spleen
The spleen as a lymph organ
Spleen Anatomy

- Capsule
- Trabecula
- Vascular sinusoid
- Artery
- Vein
- White pulp
- Red pulp
Red & white pulp

- Capsule
- Trabecula
- Vascular sinusoid
- Red pulp
- White pulp
  - Primary follicle
  - Marginal zone
  - Periarteriolar lymphoid sheath (PALS)
- Germinal center
- Vein
- Artery
Splenic Cords and Splenic Sinusoids
A blood cell passing through the wall of the sinusoid gets squeezed so tightly that both of its sides touch each other.

Endothelial cells are long, tightly packed cells that make up the sinusoid walls, like staves on a wooden barrel.

Reticular fibers are special fibers that hold the endothelial cells together, like metal straps on a wooden barrel.
Terminal lymphatic vessels
Right lymphatic duct

Rt. lymphatic duct drains the Rt. Upper Quadrant
Thank you