

Unit 33:

Abdominal cavity - content

GENERAL OBJECTIVES:

- general considerations of the organization of abdominal organs

SPECIFIC OBJECTIVES:

1. Gastrointestinal Tract

Oesophagus (Abdominal Part)

Sphincter, Constriction of Lumen

Porto-systemic Anastomosis of Left Gastric with Oesophageal Veins

Nerves (Vagal Trunks)

Stomach

Position

Parts: Cardiac Part, Fundus, Body, Pyloric Part (Antrum, Canal, Pylorus)

Greater & Lesser Curvatures

Mesenteries, Pyloric Sphincter, Mucosa

Vessels, Nerves

Duodenum

Position & Parts: 1st. -> Duodenal Cap ("1st. Part of 1st. Part") 2nd., 3rd. & 4th.

Peritoneal Attachment, Mucosal Features

Vessels & Nerves

Jejunum and Ileum

Duodenojejunal Flexure, Mesentery, Mucosal Features

Meckel's Diverticulum (2%)

Vessels & Nerves

Caecum and Vermiform Appendix

Position (& Variations)

Taenia Coli, Ileocaecal Valve, Mesoappendix

Vessels & Nerves

Ascending Transverse and Descending Colon

Right & Left Colic Flexures, Transverse Mesocolon

Haustra, Taenia Coli, Appendices Epiploicae

Vessels & Nerves

2. Liver, Biliary Tract and Pancreas

Liver

Position & Parts: Fissures, Surfaces, Lobes

Porta Hepatis (& Contents)

Hepatic Ducts Right & Left -> Common

Peritoneal Attachments, Bare Area

Vessels and "Physiological Lobes", Nerves

Gall Bladder

Position & Parts: (Fundus, Body, Neck)

Cystic Duct

Cystic Artery (variable origin & number), Veins, Lymphatics & Nerves

Bile Duct

Origin, Course, Termination

Sphincter

Pancreas

Position & Parts: Head -> Uncinate Process, Neck, Body & Tail

Pancreatic Ducts
Peritoneal Attachments
Vessels & Nerves

3. Spleen

Position & Parts: Surfaces & Borders
Hilus (& Contents)
Peritoneal Attachments. Vessels

4. Vessels of Abdomen

Arteries (Abdominal Aorta)

Course/Beginning & End, Key Relations, Distribution

Branches

Parietal Paired Inferior Phrenic, Lumbar

Unpaired Median Sacral

Visceral Paired Suprarenal

Renal (& Accessory Renal Arteries)

Gonadal

Unpaired *Coeliac* -> *Left Gastric, Splenic, Common Hepatic*

Superior Mesenteric

Inferior Mesenteric -> *Superior Rectal*

Terminal Branches: *Common Iliac* -> *External Iliac*

“Special” Branches (of Branches of Abdominal Aorta)

Common Hepatic -> Hepatic (-> Right Hepatic) -> *Cystic*

-> *Gastrooduodenal*

Sup. Mesenteric -> Ileocolic (-> Post. Caecal) -> *Appendicular*

Veins Portal & Systemic (Caval & Azygos) Systems

Portal Vein, Inferior Vena Cava

Course/Beginning & End, Key Relations, Field of Drainage

Sites of Portal-Systemic Anastomoses

“Special” Tributaries: Portal <- *Left Gastric*

<- *Splenic* <- *Inferior Mesenteric*

<- *Superior Mesenteric*

Inferior Vena Cava <- *Hepatic*

<- *Renal* <- *Left Gonadal*

<- *Right Gonadal*

<- *Common Iliac* <- *Ext. Iliac*

5. Nerves of Abdomen (& distribution, sensory/motor)

Thoraco-Abdominal Nerves (Intercostal-Subcostal)

Phrenic Nerves (Abdominal Part)

Vagi (Anterior & Posterior Trunks)

Thoracic Splanchnic Nerves (Greater, Lesser & Lowest), Sympathetic Trunks & Ganglia

Autonomic Plexuses: *Coeliac*, Others

Lumbar Plexus: *Ventral Rami (L:1,2,3 & 4)*, *Femoral & Obturator Nerves*, Other Branches

Lumbosacral Trunk (L:4 &5)