

Unit 29:

Abdominal cavity- content

Chapter 2 (Abdomen): (p. 226-290)

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
		<i>Renal (& Accessory Renal Arteries)</i>
		<i>Gonadal</i>
	Unpaired	<i>Coeliac -> Left Gastric, Splenic, Common Hepatic</i>
		<i>Superior Mesenteric</i>
		<i>Inferior Mesenteric -> Superior Rectal</i>

Terminal Branches: *Common Iliac -> External Iliac*

“Special” Branches (of Branches of Abdominal Aorta)

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

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)