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

4. **Vessels of Abdomen**

**Arteries (Abdominal Aorta)**
*Course/Beginning & End, Key Relations, Distribution*

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<tr>
<th>Branches</th>
<th>Parietal</th>
<th>Visceral</th>
<th>Inferior Phrenic, Lumbar</th>
<th>Median Sacral</th>
<th>Suprarenal</th>
<th>Renal (&amp; Accessory Renal Arteries)</th>
<th>Gonadal</th>
<th>Coeliac -&gt; Left Gastric, Splenic, Common Hepatic</th>
<th>Superior Mesenteric</th>
<th>Inferior Mesenteric -&gt; Superior Rectal</th>
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<td>Sup. Mesenteric -&gt; Ileocolic -&gt; Post. Caecal -&gt; Appendicular</td>
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**Terminal Branches:**
- Common Iliac -> External Iliac
- 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)