Physiology of Gastro-Intestinal Tract (GIT)

2nd year Medical Students 2013-2014

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Lectures (1, 2 & 3) General Characteristics of GIT

Objectives:

- Identify structures and organs that make up the GI system
- Identify functions of GI system
- Identify the tissue layers that compose the majority of the GI system.
- Identify basic electrical activity of GI smooth muscle.
- Neural control of GIT.
- Motor function (peristalsis)
- Blood supply (splanchnic circulation)
- Hormonal control of GIT

Lecture. (4, 5, 6 & 7) Upper Gastrointestinal Tract (mouth, pharynx, esophagus and stomach)

Lectures (4, 5) Mouth, Esophagus & Stomach

Objectives:

- Ingestion
  - Mechanics of ingestion
    - a.mastication (chewing))
  - Swallowing (deglutition).
  - Saliva and Salivary glands

Lectures (6 & 7) Stomach (Gastric Secretion and Motility)

Objectives

- Physiological anatomy
- Blood supply
- Innervation
✓ Gastric secretion
✓ Motor functions of stomach (motility)
  ❖ Storage
  ❖ Mixing
  ❖ Emptying

Lec 8   Pancreas

Objectives

❖ Physiological anatomy of pancreas & functions
❖ Exocrine Function of pancreatic
  ❖ Functional Anatomy
  ❖ Composition.
  ❖ Regulation.
  ❖ Phases of pancreatic juice.

Lectures (9 & 10)   Biliary Tree or Biliary Tract

Objectives

❖ Physiological anatomy of biliary tree (liver, gallbladder & bile ducts)
❖ Liver: functions
  ❖ Physiological anatomy of biliary secretion
  ❖ Bile secretion
  ❖ Composition of bile

❖ Gallbladder

Lectures (11 & 12)   Lower GIT: Small Intestine & Large Intestine

❖ Small intestine

Objectives

• Physiological anatomy
• Functions
• Intestinal secretion
• Intestinal motility

❖ Large intestine

Objectives
• Physiological anatomy
• innervation
• Functions
• Secretion
• Motility
• Physiology of Defecation

References


Accessory Book


2. web sites.