Histology Slides for the GI Tract

- Slides are presented in order of magnification
- As you view the following slides make sure you can accomplish these goals:
  1. Can you identify the organ from which the tissue sample was taken?
  2. Can you identify the specific structures or layers indicated by the numbered arrows or brackets?
- At the end of a sequence you will find the answers to the above for each organ.
Tissue from Esophagus slides 3-6

Slide # 3
1. Nonkeratinized Stratified Squamous
2. Lamina Propria
3. General layer called the Mucosa
4. Muscularis Mucosae
5. Submucosal Mucous Gland
6. Submucosa
7. Circular smooth muscle layer

Slide # 4
1. Nonkeratinized Stratified Squamous
2. Lamina Propria
3. Muscularis Mucosae
4. Submucosal Mucous Gland
5. Submucosa

Tissue from Esophagus slides 3-6

Slide # 5
1. Circular smooth muscle layer
2. Longitudinal smooth muscle layer
3. Adventitia
4. Mucularis Externa

Slide # 6
1. Nonkeratinized Stratified Squamous
2. Lamina Propria
3. Muscularis Mucosae
4. Submucosal Mucous Gland
Organ or Organs? 100X

Organ or Organs? 400X
Slides 9-10 Esophageal-Gastric Junction

Slide # 9
1. Junction where epithelia changes from nonkeratinized stratified squamous to simple columnar.
2. Simple columnar
3. Nonkeratinized stratified squamous
4. Lumen

Slide # 10
1. Simple columnar lining a gastric pit
2. Junction where epithelia changes from nonkeratinized stratified squamous to simple columnar
Organ? 100X

Organ? 400X
Slides 12-15 Stomach

Slide # 12
Large fold is a Rugae
- Gastric Mucosa

Slide # 13
1. Simple columnar lining a gastric pit
2. Muscularis Mucosae
3. Lamina Propria
4. Oblique smooth muscle layer
5. Circular smooth muscle layer
6. Longitudinal smooth muscle layer
Slides 12-15 Stomach

Slide # 14
1. Muscularis Mucosae
2. Submucosa
3. Oblique smooth muscle layer
4. Circular smooth muscle layer
5. Longitudinal smooth muscle layer

Slide # 15
1. Muscularis Mucosae
2. G-cells at the bottom of a gastric pit
3. Submucosa
4. Lamina Propria
5. Parietal cells in a gastric pit
6. Chief cells in a gastric pit
7. Oblique smooth muscle layer
8. Circular smooth muscle layer
9. Longitudinal smooth muscle layer
Slides 18-20 Liver Tissue

Slide # 18
1. Central Vein
2. Portal triads demonstrating the boundary of the lobule

Slide # 19
1. Central Vein
2. Sinusoids
3. Hepatocyte

Slide # 20
1. Branch of the Hepatic Portal Vein
2. Bile duct
3. Branch of the Hepatic Artery
4. Portal Triad
Slides 22-24 Pancreas Tissue

Slide # 22
1. Block of acinar cells called an acini
2. Pacinian Corpuscle

Slide # 23
1. Block of acinar cells called an acini
2. Pacinian Corpuscle
3. Islet of Langerhans

Slide # 24
1. Acinar Cell
2. Islet of Langerhans
Slides 26-28  Small Intestine - Duodenum

Slide # 26
1. Villus
2. Lamina Propria
3. Lacteal
4. Crypt of Lieberkuhn
5. Submucosa
6. Visceral Peritoneum
7. Longitudinal smooth muscle layer
8. Circular smooth muscle layer
9. Plicae Circularis

Slides 26-28  Small Intestine - Duodenum

Slide # 27
1. Villus
2. Lamina Propria
3. Muscularis Mucosae
4. Brunner’s gland
5. Submucosa
6. Crypt of Lieberkuhn

Slide # 28
1. Villus
2. Lamina Propria
3. Goblet cells with mucous drop
4. Crypt of Lieberkuhn
5. Muscularis Mucosae
Slides 31-32 Small Intestine - Ileum

Slide # 31
1. Villus
2. Peyer’s Patch
3. Muscularis Mucosae
4. Submucosa
5. Longitudinal smooth muscle layer
6. Circular smooth muscle layer

Slide # 32
1. Muscularis Mucosae
2. Peyer’s Patch
Slides 34-36 Large Intestine

Slide # 34
1. Intestinal Mucosa with intestinal pits or gland
2. Muscularis Mucosae
3. Submucosa
4. Longitudinal smooth muscle layer
5. Circular smooth muscle layer
6. Lymph node

Slide # 35
1. Intestinal pit or gland
2. Muscularis Mucosae
3. Submucosa
4. Longitudinal smooth muscle layer
5. Circular smooth muscle layer

Slides 34-36 Large Intestine

Slide # 36
1. Intestinal pits with goblet cells
2. Lamina Propria
3. Muscularis Mucosae
4. Lumen of an intestinal pit or gland
Slides 39-41 Ano-rectal junction

Slide # 39
1. Junction of the Rectum and Anus

Slide # 40
1. Junction of the Rectum and Anus
2. Simple Columnar cells of the Rectum
3. Nonkeratinized stratified squamous of the Anus
4. Intestinal pit or gland

Slide # 41
1. Simple Columnar cells of the Rectum
2. Nonkeratinized stratified squamous of the Anus