

## LAB 7: DIGESTIVE SYSTEM

### ACTIVITY 15: DIGESTIVE SYSTEM ANATOMY

**INDICATE LEFT/RIGHT WHERE APPLICABLE & ARTERY/VEIN WHERE APPLICABLE ON QUIZ/EXAM**

*Use the digestive models to locate these structures.*

#### UPPER GI TRACT

##### Oral Cavity (Mouth)

1. Hard palate
2. Soft palate
  - a. uvula
3. Tongue
4. Salivary glands (both left and right)
  - a. Parotid glands
  - b. Submandibular glands
  - c. Sublingual glands
5. Adult teeth *{these structures are also visible on a human skull}*
  - a. Incisors–*cutting*
  - b. Canines–*grabbing or tearing*
  - c. Premolars and molars–*grinding or crushing*

##### Pharynx

6. Oropharynx
7. Laryngopharynx
8. Esophagus
  - a. Esophageal hiatus
  - b. Gastroesophageal sphincter = cardiac sphincter = lower esophageal sphincter (LES)

#### LAYERS OF THE GI TRACT

9. Mucosa
10. Submucosa
11. Muscularis externa
  - a. Longitudinal muscles
  - b. Circular muscles
12. Visceral peritoneum

#### LOWER GI TRACT

13. Stomach
  - a. Cardia
  - b. Fundus
  - c. Body
  - d. Pylorus
  - e. Pyloric sphincter
  - f. Rugae
  - g. Greater omentum
  - h. Lesser omentum
  - i. Greater curvature
  - j. Lesser curvature
14. Small Intestine
  - a. Duodenum
  - b. Jejunum
  - c. Ileum
  - d. Ileocecal sphincter
  - e. Plicae circulares (appear as *circular ridges*)
  - f. Major duodenal papilla (*results from the main pancreatic duct*)

## LAB 7: DIGESTIVE SYSTEM

### ACTIVITY 15: DIGESTIVE SYSTEM ANATOMY

**INDICATE LEFT/RIGHT WHERE APPLICABLE & ARTERY/VEIN WHERE APPLICABLE ON QUIZ/EXAM**

#### DIGESTIVE SYSTEM

15. Large Intestine

- a. Cecum
  - 1. Appendix
- b. Colon
  - 1. Ascending colon
  - 2. Transverse colon
  - 3. Descending colon
  - 4. Sigmoid colon
- c. Rectum
  - 1. Anal canal with anus
- e. Hepatic flexure (right colic flexure)
- f. splenic flexure (left colic flexure)
- g. Haustra
- h. Tenia coli
- i. Epiploic appendages

16. Pancreas

- a. Main pancreatic duct
- b. Accessory pancreatic duct
- c. Hepatopancreatic ampulla
- d. Common bile duct
- e. Superior mesenteric vein\*\*
- f. Inferior mesenteric vein\*\*
- g. Splenic vein\*\*
- h. Hepatic portal vein\*\*

\*\* Vessels associated with the hepatic portal system.

17. Liver

- a. Falciform ligament
- b. Right lobe
- c. Left lobe
- d. Caudate lobe
- e. Quadrate lobe
- f. Right hepatic duct
- g. Left hepatic duct
- h. Common hepatic duct
- i. Hepatic artery
- j. Hepatic portal vein\*\*

18. Gallbladder

- a. Cystic duct

19. Spleen

20. Inferior vena cava

## LAB 7: DIGESTIVE SYSTEM

Trace the pathway of food from the oral cavity to the anus:

Include all sphincters, flexures/regions of the intestines:

---

---

---

---

---

Trace the flow of bile from the liver to the gallbladder:

1. Liver
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. Gallbladder

Trace the flow of bile from the gallbladder to the duodenum:

1. Gallbladder
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. Duodenum

Trace the flow of bile from the liver as it directly moves into the duodenum:

1. Liver
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. Duodenum

Trace the pathway of food from the oral cavity through the hepatic portal system to the R. Atrium:

Hint: recall that the villi of the small intestines contain capillaries that absorb nutrients.

---

---

---

---

---