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WELCOME TO BIOLOGY II

Course Outline

Topics:

1. Digestive
2. Urinary
3. Endocrine
4. Reproductive
5. Skeletal
6. Muscular
7. Lymphatic
8. Immunity

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Organs of the Digestive System

Two main groups of organs:

1. Alimentary canal
 - continuous coiled hollow tube
 - a.k.a gastrointestinal (GI) tract.
 - performs all of the previously listed functions

2. Accessory digestive organs
 - Connected to Alimentary Canal
 - assisted in the function of digestion

Mouth (Oral Cavity) Anatomy

Tonsils

1. Palatine tonsils

- 2 at back of oral cavity on sides

3. Pharyngeal tonsil

- (adenoid)- roof of nasopharynx

2. Lingual tonsil

- back of tongue

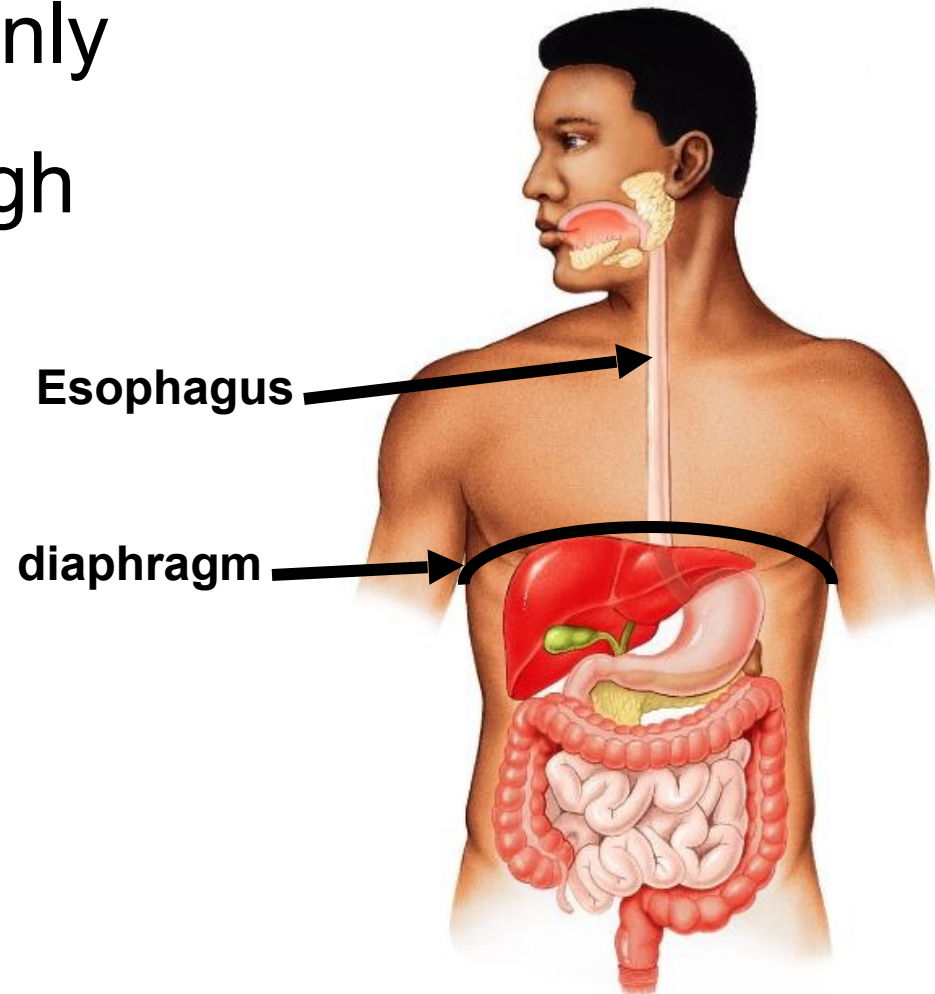
4. Tubal tonsils

- at opening of auditory tubes into pharynx

* serves defense function*

Esophagus

- runs from pharynx to stomach through diaphragm
- passage way for food only
- also moves food through peristalsis(wave like contraction)



Swallowing

1. Buccal phase

- Voluntary
- Occurs in mouth
- Food is formed into **bolus** (using teeth, tongue and saliva)
- **bolus(ball of food)** is forced towards pharynx by tongue(wave like movement)

Swallowing

2. Pharyngeal-esophageal phase

- Involuntary transport of bolus down pharynx and esophagus (smooth muscle)
- All passageways except esophagus are blocked
 - Tongue blocks off mouth
 - Epiglottis blocks larynx
 - Soft palate (uvula) blocks nasopharynx

Stomach Anatomy

- Located on left side of abdominal cavity
- C-shaped organ
- Food enters at cardioesophageal sphincter
- Food empties into small intestines at pyloric sphincter

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Lining of the Stomach

Contents of Gastric juice

1. Enzymes
 2. Hydrochloric acid
 3. Gastrin (hormone that stimulates stomach to secrete hydrochloric acid)
- stomach lining also produces mucous to protect stomach wall from gastric juice(acid like substance)

Large Intestine

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Large intestine



Large Intestine

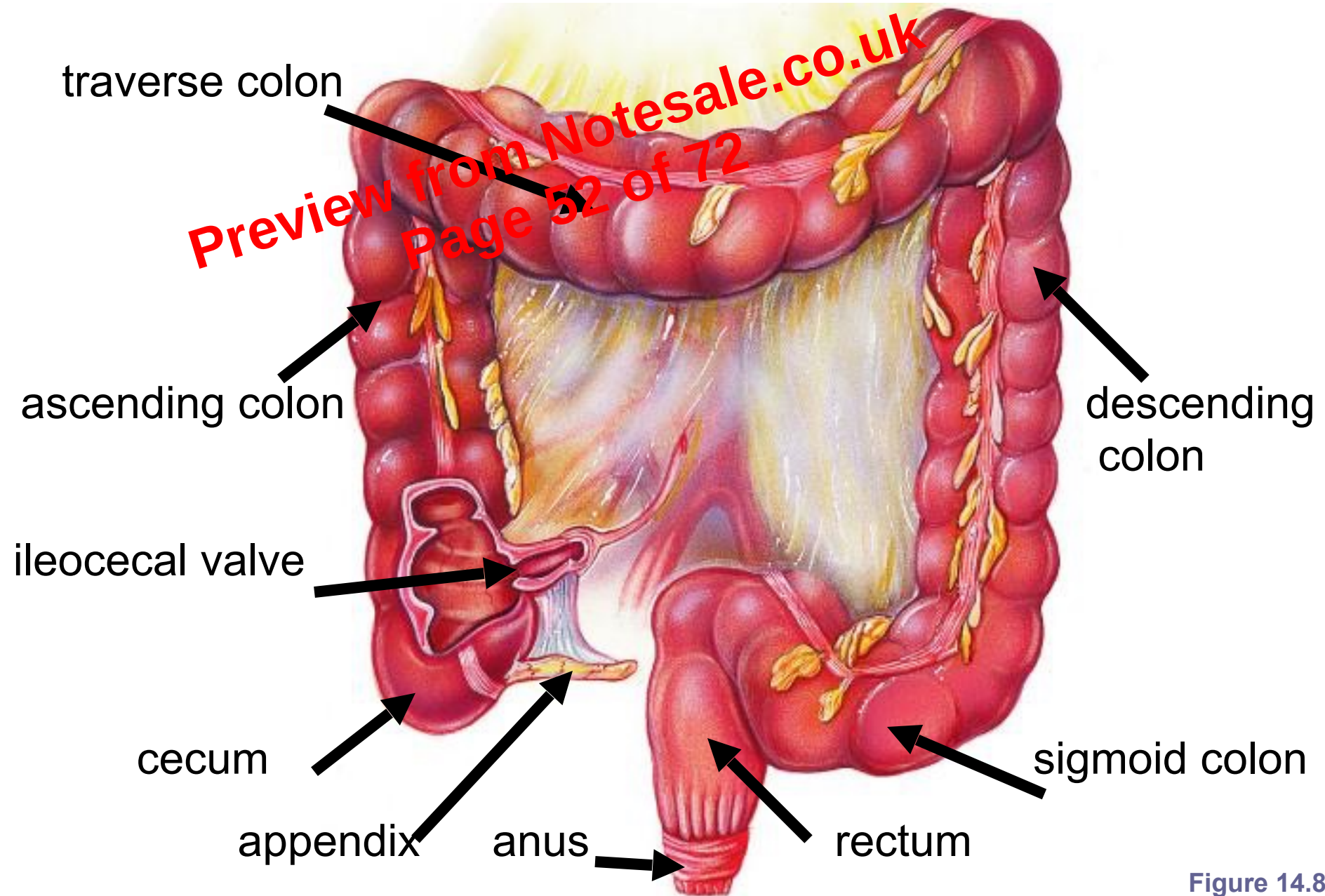


Figure 14.8

Pancreas

