

Component 3-Terminology in Healthcare and Public Health Settings

Unit 6-Digestive System

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Digestive System

- · Objectives
 - Define, understand and correctly pronounce medical terms related to the digestive system
 - Describe the following related to the digestive system
 - common diseases and conditions
 - laboratory and diagnostic procedures
 - medical and surgical procedures
 - medications

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Digestive System

- Also called Gastrointestinal System (GI)
- Function
 - Digestion of food
 - Absorption of nutrients
 - Elimination of solid wastes

SEER Training Modules, Anatomy & Physiology. U.S. National Institutes of Health, National Cancer Institute. 6/27/2010 http://training.seer.cancer.gov/anatomy/digestive/

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Digestive System Organs of the gastrointestinal tract

- Oral cavity
- Pharynx
- Esophagus
- Stomach
- Small intestine
- Colon



Digestive System • Accessory Organs Pancreas Gallbladder - Salivary glands

Liver

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Digestive System

- Oral Cavity
 - Digestion begins when food enters mouth
 - - Contains digestive enzymes
 - Lubricates
- Pharynx
 - Common pathway
 - Digestion
 - Respiration
 - Directs food into the esophagus

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Digestive System

- Esophagus
 - Food enters from pharynx
 - Delivered to stomach
 - Propelled along by wavelike muscular movements
- Stomach
 - Collects and churns food
 - Mixes it with hydrochloric acid (HCI)
 - Forms chyme
 - Watery mix of food and digestive juices

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Digestive System

- · Small Intestine
 - Completion of digestion
 - Majority of absorption
 - Divided into three sections
 - Duodenum (first section)
 - Approximately 10-12 inches long
 - Jejunum (second section)
 - Approximately 8 feet long
 - Ileum (third section)
 - Approximately 12 feet long

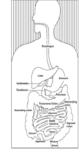
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Digestive System

- Colon
 - 5 feet long
 - Receives fluid that remains after digestion and absorption
 - Most is water and is reabsorbed into the body
 - Feces is left over solid waste
 - Evacuated in bowel movements



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Rectum and Anus

- Rectum
 - Storage of feces
- Anus
 - External opening at end of digestive system
 - Evacuation of feces

SEER Training Modules, Anatomy & Physiology. U.S. National Institutes of Health, National Cancer Institute. 6/27/201 http://training.seer.cancer.gov/anatomy/digestive/regions/intestine.html>

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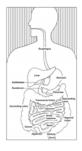
Accessory Organs

- Produce substances necessary for the breakdown of food
- Organs
 - Salivary glands
 - Liver
 - Gallbladder
 - Pancreas

SEER Training Modules, Anatomy & Physiology. U.S. National Institutes of Health, National Cancer Institute. 6/27/2010 http://training.seer.cancer.gov/anatomy/digestive/regions/

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Salivary Glands

- Location
 - Oral cavity
- Function
 - Produce saliva
 - Allow food to be swallowed without choking
 - Saliva + food = bolus
 - Contains amylase
 - Aids in digestion of carbohydrates

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Liver

- Location
 - Upper right quadrant of abdomen
- Functions
 - Processes nutrients
 - Detoxifies harmful substances
 - Produces bile
 - Emulsification
 - Breaks up fat

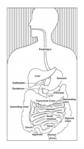


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Gallbladder

- Location
 - Under liver
- Function
 - Stores bile produced by liver
- Ducts
 - Hepatic duct
 - Common bile duct
 - Cystic duct

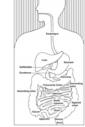


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Pancreas

- Location
 - Under the stomach
- Function
 - Production of digestive juices
 - neutralize acidic chyme
 - digest carbohydrates, lipids, and proteins



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Peptic Ulcer

- · A sore in the lining of the stomach or duodenum
- · Most common symptom
 - · Burning stomach pain
- - Digestion acids damage the walls of the stomach or duodenum
- Treatment
 - · Medicines to block stomach acids
 - · Antibiotics to kill ulcer-causing bacteria.

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Cholelithiasis (Gallstones)

- · Form when substances in bile harden
- Symptoms
 - Nausea
 - Vomiting
 - · Pain in the abdomen, back, or just under the right
- Most common among older adults, women, overweight people, Native Americans and Mexican Americans
- Treatment
 - · Surgical removal of the gallbladder

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Crohn's Disease

- Regional enteritis or regional ileitisInflammation of the digestive system
- Often affects the lower part of the small intestine
- Can occur in people of all age groups
 - Most often diagnosed in young adults
- Common symptoms include
 - Pain in the abdomen and diarrhea
 - Bleeding from the rectum, weight loss, joint pain, skin problems and fever
 - Intestinal blockage and malnutrition
- Treatment
 - Medicines, nutrition supplements, surgery or a combination

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Digestive System Combining Forms • an/o anus anal • chol/e bile, gall cholelithiasis cholecyst/o gallbladder cholecystitis colon colostomy col/o enteritis • enter/o small intestine esophageal • esophag/o esophagus Health IT Workforce Curriculum Version 2.0/Spring 2011

Digestive System Combining Forms

gastr/ohepat/ojejun/olapar/olith/oor/o	stomach liver jejunum abdomen stone mouth	gastritis hepatitis jejunal laparotomy cholelithiasis oral
• proct/o	anus and rectum	proctologist
pylor/orect/o	pylorus rectum	pyloric rectal

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Tell me, Detective . . .

 Jane is 25 and is having abdominal pain, diarrhea and rectal bleeding for the last several days. In talking with her doctor, she tells him that there is a family history of having digestive problems. These symptoms are indicative of:



- Peptic Ulcer
- Cholelithiasis
- Crohn's Disease

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