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NCLEX Notes Week 10: The Gastrointestinal System

Diagnostic Procedures

Barium Swallow

- Examination of the upper gastrointestinal tract under fluoroscopy after the client drinks barium sulfate
 - Pre-procedure
 - withhold foods and fluids for 8 hours prior to the test
 - Post-procedure
 - a laxative may be prescribed
 - instruct the client to increase oral fluid intake to help pass the barium

• Fiberoptic colonoscopy

- Study in which the lining of the large intestine is visually examined
 - Pre-procedure
 - Cleansing of the colon
 - Clear liquid diet is started on the day before the test
 - Client is in NPO for 4 to 6 hours prior to the test
 - Post-procedure
 - Monitor vital signs
 - Provide bed rest
 - Monitor for signs of bowel perforation and peritonitis

• Paracentesis

- Transabdominal removal of fluid from the peritoneal cavity
 - Pre-procedure
 - Ensure that the patient understands the procedure
 - Obtain vital signs and weight
 - Measure the amount of fluid removed
 - Send the fluid for laboratory analysis
 - Post-procedure
 - Apply sterile dressing to insertion site
 - Monitor site for bleeding
 - Measure patient's weight
 - Monitor patient for signs of hypovolemia, electrolyte loss, mental status changes, or encephalopathy

Gastrointestinal Problems

- GERD
 - Backflow of gastric and duodenal contents into the esophagus
 - Caused by an incompetent lower esophageal sphincter, pyloric stenosis, or motility disorder
 - Assessment
 - Heartburn
 - Dyspepsia
 - Nausea
 - Pain
 - Hypersalivation
 - Interventions
 - instruct the client to eat a low-fat, high-fiber diet and to avoid eating 2 hours before bedtime
 - Instruct the client to take medications like antacids
 - Elevate the head of the bed when sleeping



• Gastritis

- Inflammation of the stomach or gastric mucosa
 - Assessment
 - Hiccupping
 - Headache
 - Reflux

- Abdominal Discomfort
- Belching
- Interventions
 - Foods and fluids should be withheld until symptoms subside
 - Ice Chips can be given, then clear liquids, then solid food

• Peptic Ulcer Disease

- A peptic ulcer is an ulceration in the mucosal wall of the stomach, pylorus, duodenum, or esophagus due to gastric secretions
 - Assessment
 - Knowing, sharp pain to the left of the mid esophagus region that occurs 30 260 minutes after a meal
 - Interventions
 - Avoid consuming alcohol or substances that contain caffeine or coffee
 - Avoid smoking
 - Avoid aspirin or NSAIDs
 - Reduce stress
 - Administer antacids and anticholinergic
 - Administer mucosal barrier protectant as prescribed one hour before each meal

• Hiatal Hernia

- Portion of the stomach hernia through the diaphragm and into the thorax
 - Assessment
 - Heartburn
 - Vomiting
 - Dysphasia
 - Feeling of fullness
 - Intervention
 - Provide small frequent meals and limit the amount of liquids taken with meals
 - Advise the patient not to recline for 1 hour after eating

• Esophageal Varicies

- Dilated and tortuous veins in the submucosa of the esophagus
 - Assessment
 - Hematemesis
 - Melena
 - Ascites

- Jaundice
- Dilated abdominal veins
- Interventions
 - Monitor vital signs
 - Elevate the head of the bed
 - Monitor for orthostatic hypotension
 - Administer medications
 - Monitor hemoglobin and hematocrit levels

• Pancreatitis

- Acute or chronic inflammation of the pancreas
 - Assessment
 - Abdominal pain
 - Pain aggravated by a fatty meal, alcohol, or lying and recumbent position
 - Nausea and vomiting
 - Weight loss
 - Interventions
 - Administer H2 receptor Agonist or proton pump inhibitors
 - Avoid using alcohol

• IBS

- Functional disorder characterized by chronic or recurrent diarrhea, constipation, or abdominal pain and bloating
 - Interventions
 - Increase dietary fiber
 - Use medications like antidiarrheals

• Ulcerative Colitis

- An ulcerative and inflammatory disease of the bowel that results in poor absorption of nutrients
 - Assessment
 - Anorexia
 - Weight loss
 - Malaise
 - Abdominal tenderness and cramping
 - Vitamin K deficiency
 - Interventions
 - Monitor bowel sounds
 - Monitor stools

• Instruct the client of a low fiber diet

• Crohn's Disease

- Can act anywhere in the gastrointestinal tract but most commonly affect the terminal ileum and leads to thickening and scarring, narrowing lumen, fistulas, ulcerations, and acidosis
 - Assessment
 - Fever
 - Cramp-like and colicky pain after me
 - Diarrhea
 - Abdominal distension
 - Anorexia
 - Weight loss
 - Anemia

• Diverticulosis

- Is an outpouching or herniation of the intestinal mucosa
- Diverticulitis
 - Is the inflammation of one or more diverticula that occurs from penetration of fecal matter through this thin wall be particular
 - Assessment
 - Left lower quadrant pain
 - Elevated temperature
 - Nausea and vomiting
 - Flatulence
 - Cramp like pain
 - Blood in the stools
 - Interventions
 - Monitor for signs of preparation
 - Increase fluid intake to 2500 ml per day
 - Have a colon resection

Important Medications

• Antacids

- React with gastric acid to produce neutral salts
- \circ should be chewed thoroughly and followed with a glass of milk

• Histamine Receptor Agonist

- Restoration of gastric acid
- alleviate symptoms of heartburn
- prevent stress ulcers

are contradicted in hypertensive clients

• Proton Pump Inhibitors

- Suppressed gastric acid secretion
- Used to treat active Ulcer Disease
 - Common side effects include headache, diarrhea, abdominal pain, and nausea

• Antiemetics

- \circ $\,$ Medications used to control vomiting and motion sickness $\,$
- Monitor vital signs and intake and output for signs of dehydration in fluid and electrolyte imbalance