Endoscopy/GI Lab Content Outline

Exam Objective: To measure the overall level of clinical knowledge in the area of the Endoscopy/GI Lab.

Knowledge Domains - Endoscopy/GI Lab Exam

- Cardiovascular: 23%
- Endocrine: 11%
- Gastrointestinal: 55%
- General Knowledge: 4%
- GI Pharmacology: 6%

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I. Cardiovascular
   A. Nursing interventions related to hypotension.
   B. Nursing interventions related to pacemakers/AICD.
   C. High-risk populations.

II. Endocrine
   A. Knowledge of ERCP (Endoscopic Retrograde Cholangiopancreatography):
      1. Indications
      2. Contraindications
      3. Complications
   B. Knowledge of substances that aid in digestive process.

III. Gastrointestinal
   A. Knowledge of anatomy and physiology of the GI Tract:
      1. Small Intestine
      2. Large Intestine
      3. Stomach
      4. Valves in GI Tract
      5. GI Motility & Peristalsis
      6. Vasovagal Response
      7. Esophagus
         a. Lower esophageal sphincter function
      8. Papilla of Vater/Ampulla of Vater
      9. Common infection diseases
   B. Knowledge of disease processes of the GI Tract:
      1. Ulcerative Colitis
      2. Gastric Ulcers (Etiology)
3. Crohn’s Disease (Signs & symptoms)
4. Diverticula of the GI Tract (Complications)
5. Diverticulitis
6. Celiac Sprue (Symptoms & Dietary considerations)
7. Polyps (Classification/Types; Hyperplastic)
8. GI Bleed (Types, Characteristics)
9. Strictures of GI Tract (Equipment)
10. Peptic Ulcers (Common location)
11. GERD (Treatment protocols)
12. Esophageal Tumors (Characteristics)
13. Esophageal Varices (Common etiology & Treatment)
14. Mallory-Weiss
15. Systemic Toxicity

C. Knowledge of procedures common to the Endo/GI Lab:
1. Colonoscopy
   a. Patient education
   b. Proper positioning
   c. Complications
   d. Nursing interventions regarding patient comfort
   e. Discharge criteria post-procedure
   f. Discharge instructions post-procedure
   g. Indications
2. Esophagogastroduodenoscopy
   a. Equipment
3. Cauterization of Polyps
   a. Patient education post-procedure
4. Endoscopy
   a. Equipment needed

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b. Rationale for positioning patient
5. Capsule Endoscopy
   a. Indication
   b. Contraindications
6. Removal of food impaction
   a. Equipment needed for removal
7. Gastric Manometry
   a. Indications
8. ERCP (Endoscopic Retrograde Cholangiopancreatography)
   a. Nursing Interventions Post-procedure
9. Gastrostomy Tubes
   a. PEG
10. Cautery
    a. Complications
D. Knowledge of equipment commonly used in the Endo/GI Lab:
   1. Hot Snare (cautery)
   2. Cold Snare
   3. Small Bowel Capsule
      a. Battery Life
   4. Over Tube
      a. Purpose

IV. General Knowledge
   A. Knowledge of nursing process.
   B. Knowledge of equipment commonly used in the Endo/GI Lab:
      1. Hemostasis Clips
      2. Roth Net

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C. Knowledge of EGD (Esophagogastroduodenoscopy):
   1. Pre-procedural preparation
   2. Normal lab values
D. Knowledge of radiological safety.

V. GI Pharmacology
   A. Knowledge of medications used to reverse conscious sedation (use same goal from ICU exam).
   B. Knowledge of Proton Pump Inhibitors.
   C. Knowledge of H2 Blockers.
   D. Knowledge of medications commonly used for Irritable Bowel Syndrome and for H. pylori.
   E. Medications
      1. Amoxicillin
      2. Digoxin
      3. ASA
      4. Ibuprofen
      5. Valium
      6. Versed
      7. Mylicon
      8. Narcan
      9. Romazicon
     10. Rocephin
     11. Levaquin
     12. Cipro
     13. Zithromax
     14. Glucagon
     15. Nexium

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16. Plavix
17. Prilosec
18. Sodium Morrhuate
19. Formalin
20. Protonix
21. Zantac
22. Flagyl