DOM DEPARTMENT of MEDICINE Improving Lives

OBJECTIVES FOR COMMON CLINICAL PROBLEMS

Gastrointestinal Bleeding

A. KNOWLEDGE: Students should be able to define, describe, and discuss:

- 1. The common causes for and symptoms of upper and lower gastrointestinal blood loss, including:
 - Esophagitis/esophageal erosions
 - Mallory Weiss tear
 - Peptic and duodenal ulcer disease
 - Esophageal/gastric varices
 - Erosive gastritis
 - Arteriovenous malformations
 - Gastrointestinal tumors, benign and malignant
 - Diverticulosis
 - Ischemic colitis
 - Hemorrhoids
 - Anal fissures
- 2. The distinguishing features of upper versus lower GI bleeding
- 3. The indications for inpatient versus outpatient evaluation and treatment
- 4. The principles of stabilization and treatment of acute massive GI blood loss.
- 5. The role of contributing factors in GI bleeding such as H. pylori infection; NSAIDs, alcohol, cigarette use, coagulopathies; and chronic liver disease.

- B. SKILLS: Students should demonstrate specific skills, including:
 - 1. History-taking skills: Students should be able to obtain, document, and present an age-appropriate history that differentiates among etiologies of disease, including:
 - Features that distinguish upper from lower GI bleeding
 - Quantification of degree of blood loss
 - Chronology and duration of bleeding
 - Associated symptoms
 - Relevant past medical history
 - Medication history, including use of tobacco and alcohol
 - 2. Physical exam skills: Students should be able to perform a physical examination to establish the diagnosis and severity of disease, including:
 - Postural blood pressure and pulse
 - Abdominal palpation for organomegaly, masses, and tenderness
 - Search for stigmata of chronic liver disease
 - Rectal examination
 - 3. Differential diagnosis: Students should be able to generate a differential diagnosis recognizing specific history and physical examination findings that suggest a specific etiology for GI bleeding
 - 4. Laboratory interpretation: Order and interpret diagnostic and laboratory tests based on the differential diagnosis. These may include:
 - Stool and emesis fluid tests for occult blood
 - CBC
 - PT/PTT
 - Hepatic function panel
 - Tests for Helicobacter pylori

Students should be able to define the indications for:

- Esophagogastroduodenoscopy
- Colonoscopy
- Barium studies of the gastrointestinal tract
- 5. Management skills: Students should be able to develop an appropriate evaluation and treatment plan for patients that includes:
 - Establishing adequate venous access
 - Administering crystalloid fluid resuscitation
 - Ordering blood and blood product transfusion
 - Determining when to obtain consultation from a gastroenterologist or a general surgeon
 - Outlining long-term management when appropriate (e.g. Helicobacter pylori eradication, antacid, H-2 blocker or proton pump inhibitor therapy, smoking /alcohol cessation, NSAID restriction, and dietary modification)