



Gastrointestinal Bleeding and Intra-abdominal bleeding

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GI Bleeding

- Common problem
- Can be subtle presenting with anemia
- Can be significant presenting with
 - Coffee Ground Emesis
 - Hematemesis
 - Hematochezia
 - Melena
 - BRBPR



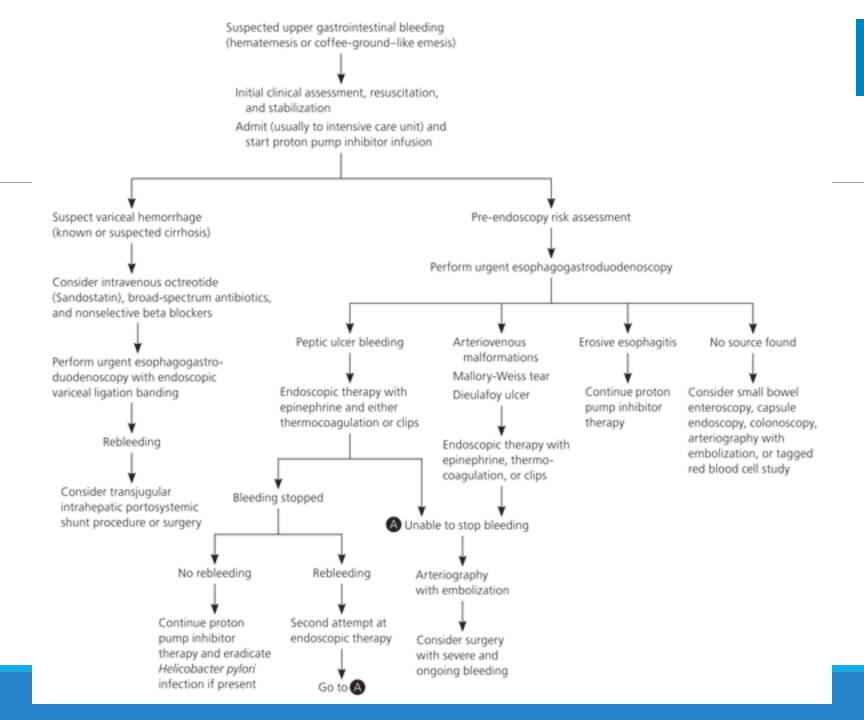
GI Bleeding

- Upper GI Bleed
 - Proximal to ligament of Treitz
- Lower GI Bleed
 - Distal to ligament of Treitz



UGI Bleeding

- o DDX:
 - Peptic ulcer
 - Esophageal and gastric varices
 - Mallory Weiss tear
 - Dieulafoy lesion
 - Hemobilia
 - Neoplasm
 - Gastritis
 - Aortoduodenal fistulas







PUD

- Ulcer hemorrhage is a leading cause of acute UGIB worldwide
- Etiology of gastric and duodenal ulcers may be related to
 - Helicobacter pylori ,
 - nonsteroidal anti-inflammatory agents,
 - stress, and
 - increased acid secretion (e.g ZES)









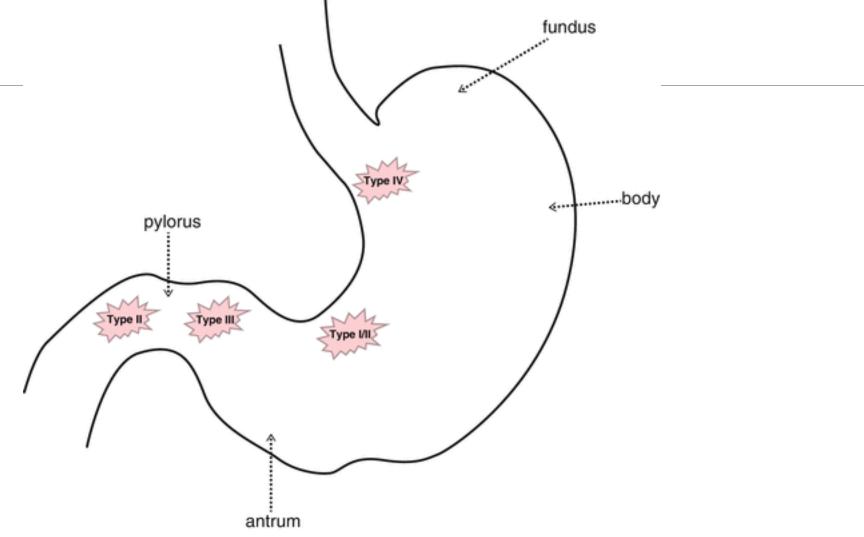
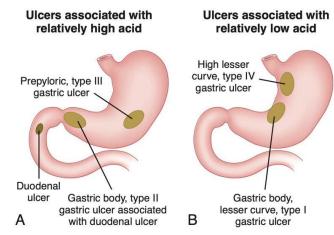
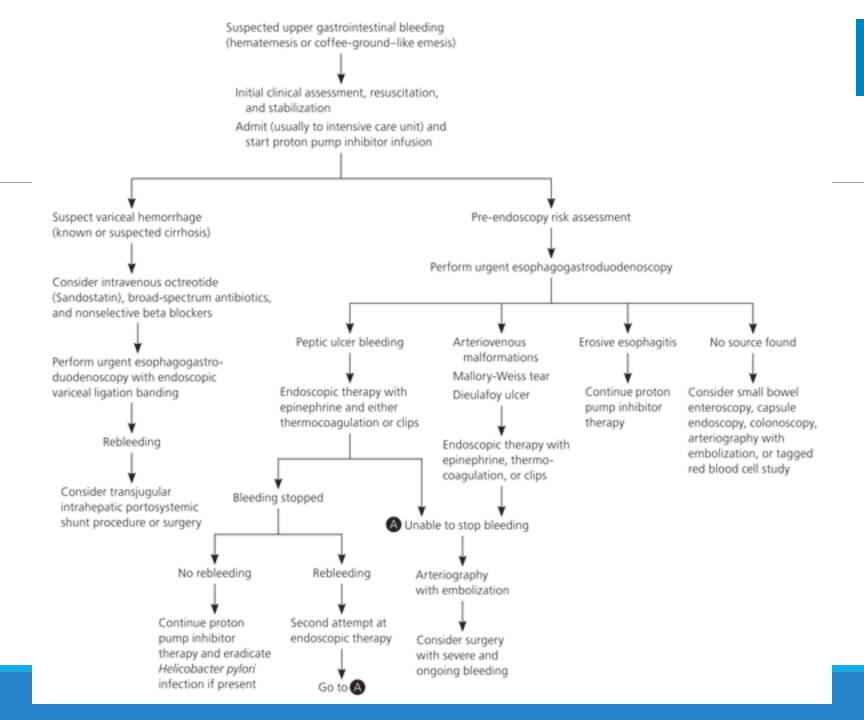




Table 74-1. The Five Types of Gastric Ulcers by Location, Gastric Acid Secretory Status, Complications, and Incidence				
TYPE	LOCATION	ACID HYPERSECRETION	COMPLICATIONS	INCIDENCE
I	Gastric body, lesser curvature	No	Bleeding uncommon	55%
II	Body of stomach + duodenal ulcer	Yes	Bleeding, perforation, obstruction	20%
III	Prepyloric	Yes	Bleeding, perforation	20%
IV	High on lesser curvature	No	Bleeding	<5%
V	Anywhere (medication induced)	No	Bleeding, perforation	<5%

Figure 74-1. The four types of gastric ulcers and their association with either high acid (A) or low acid (B). (From Sabiston DC Jr. Textbook of surgery: The biologic basis of modern surgical practice. Philadelphia: WB Saunders; 1997.)



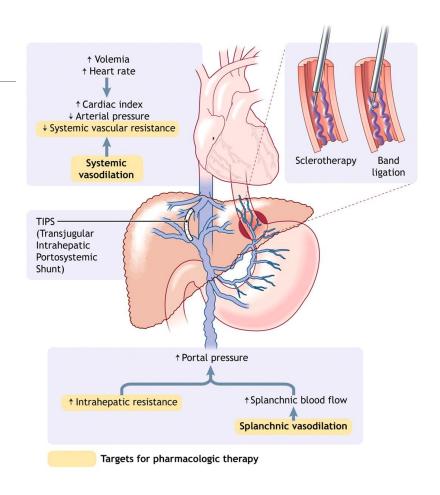






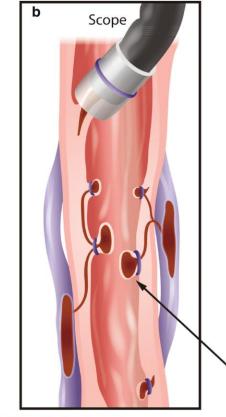
Esophageal varices

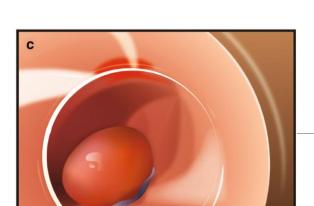
 Variceal hemorrhage occurs from portal hypertension and the most common cause of portal hypertension is cirrhosis

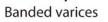


a Rubber Band Ligation System®





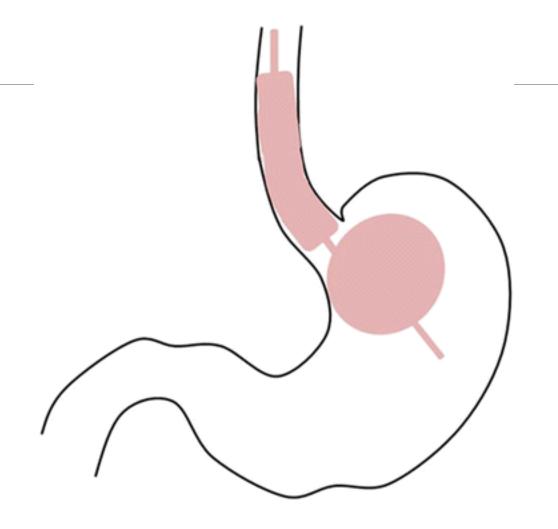


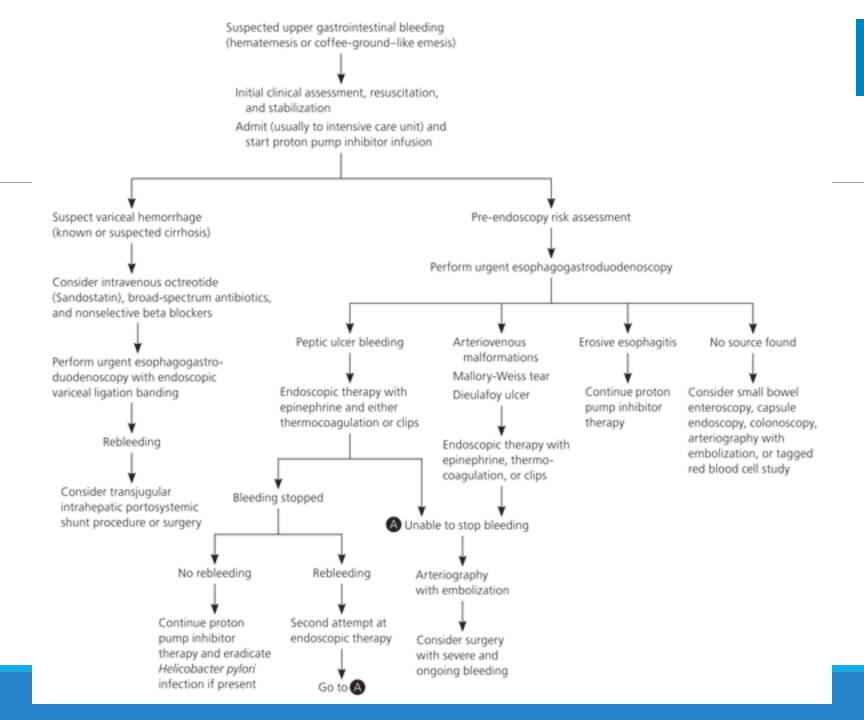










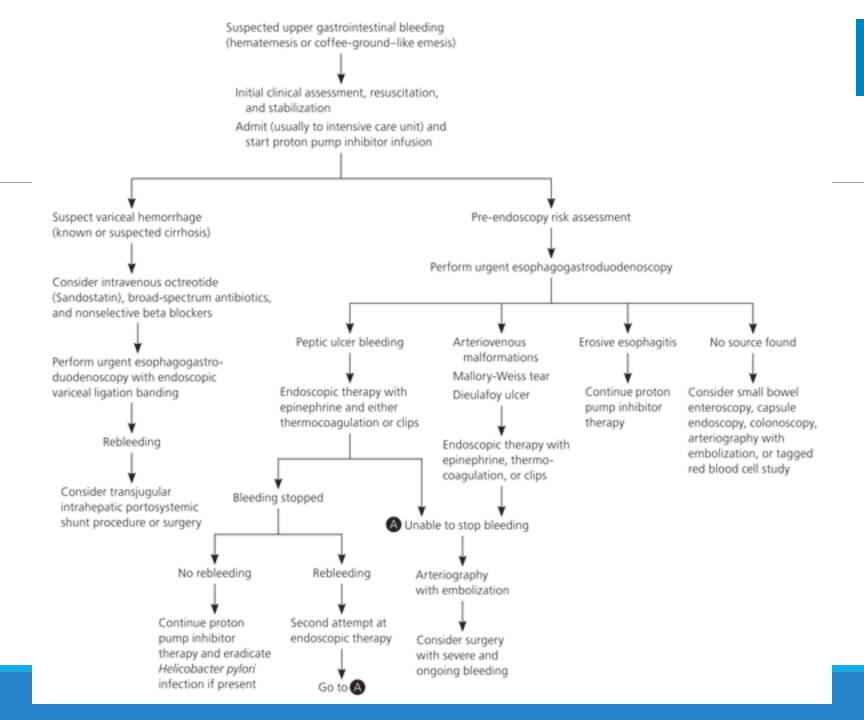




Mallory Weiss tear

 longitudinal tears are classically caused by severe retching







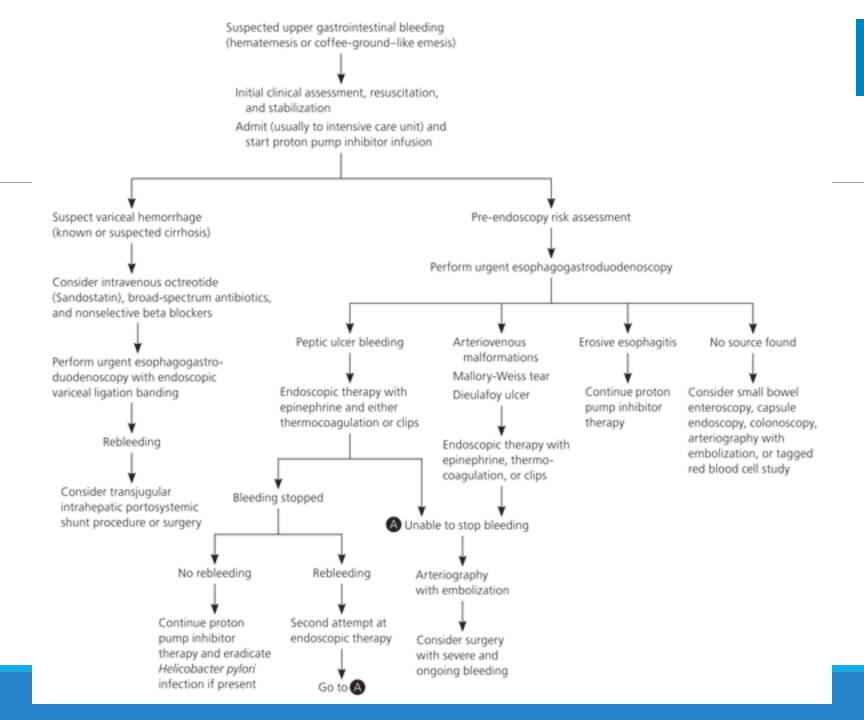


Dieulafoy lesion

 Dieulafoy's lesions are congenital abnormally large diameter submucosal arterioles which do not decrease in size as they approach the mucosa

 75% in stomach but can occur throughout the gastrointestinal tract









Aortoenteric Fistula

- Aortoenteric fistulas are classified as primary
 - erosion of the aneurysm into the adjacent bowel,
 - infection,
 - neoplasm,
 - or radiation therapy
- secondary
 - previous endovascular stent or graft aneurysm repair
- Management endovascular stenting +-/ open surgical repair





Hemobilia

- Jaundice, Right upper quadrant pain and GI bleeding
- causes include
 - liver biopsy,
 - biliary instrumentation,
 - hepatocellular carcinoma,
 - cholangiocarcinoma,
 - and post-cholecystectomy



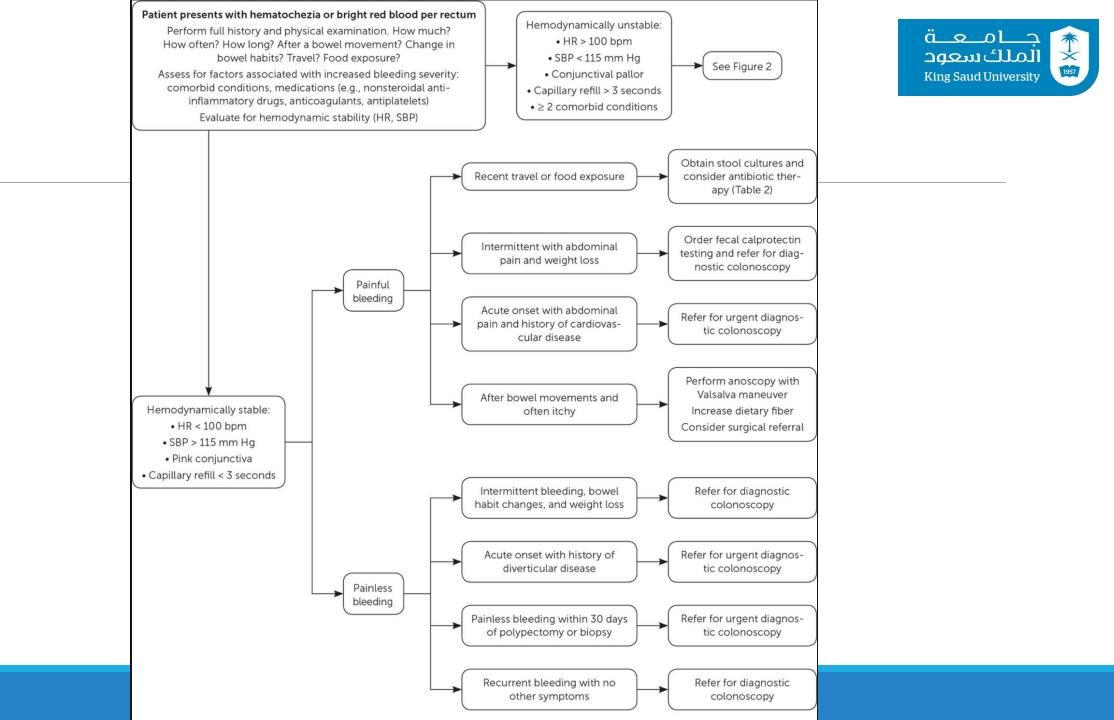
Neoplasm

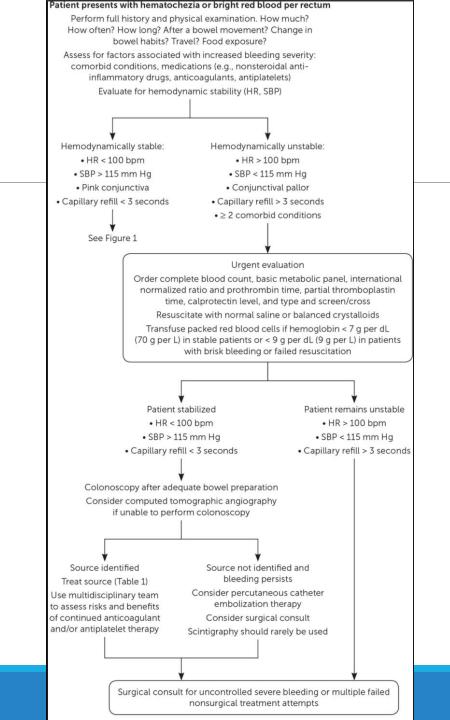
- Neoplasms such as gastrointestinal stromal tumors (GIST) and adenocarcinomas rarely cause UGIB.
- If significant bleeding does occur from a GIST tumor, resection with negative margins can be considered.
- Adenocarcinoma rarely presents with massive hemorrhage and frequently can be managed with endoscopic therapy.
- Radiation therapy is an alternative.
- Tumors which present with hemorrhage are often late stage. Surgical resection would likely be palliative only and should be carefully considered along with goals of care



Lower GI Bleeding

- ODDx
 - Hemorrhoids
 - Angiodysplagia
 - Ischemic
 - Post Intervention
 - Infectious
 - Diverticulosis
 - IBD
 - Neoplastic (poly, carcinoma)





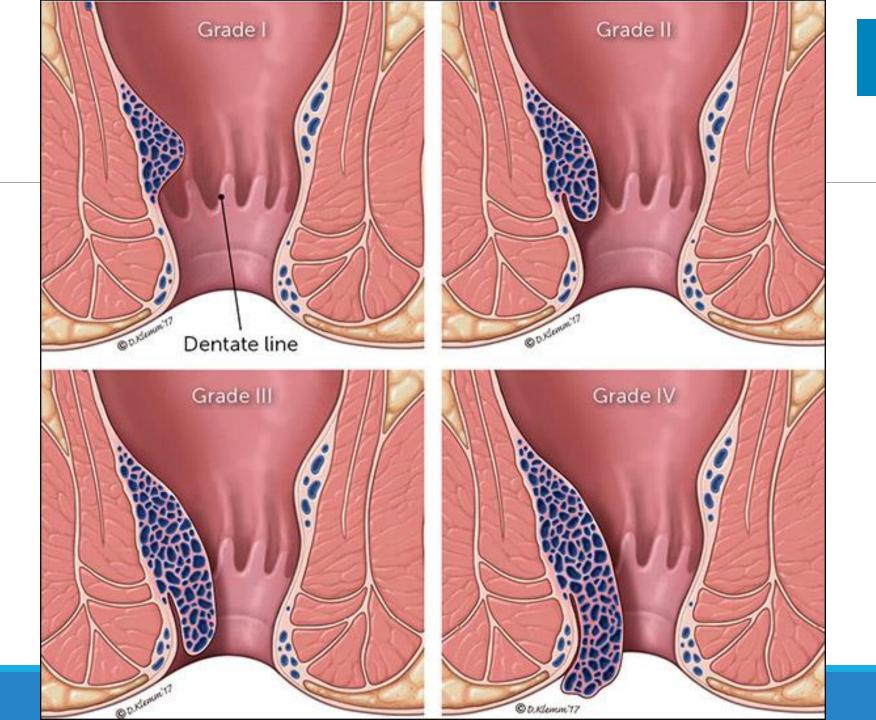




Hemorrhoids

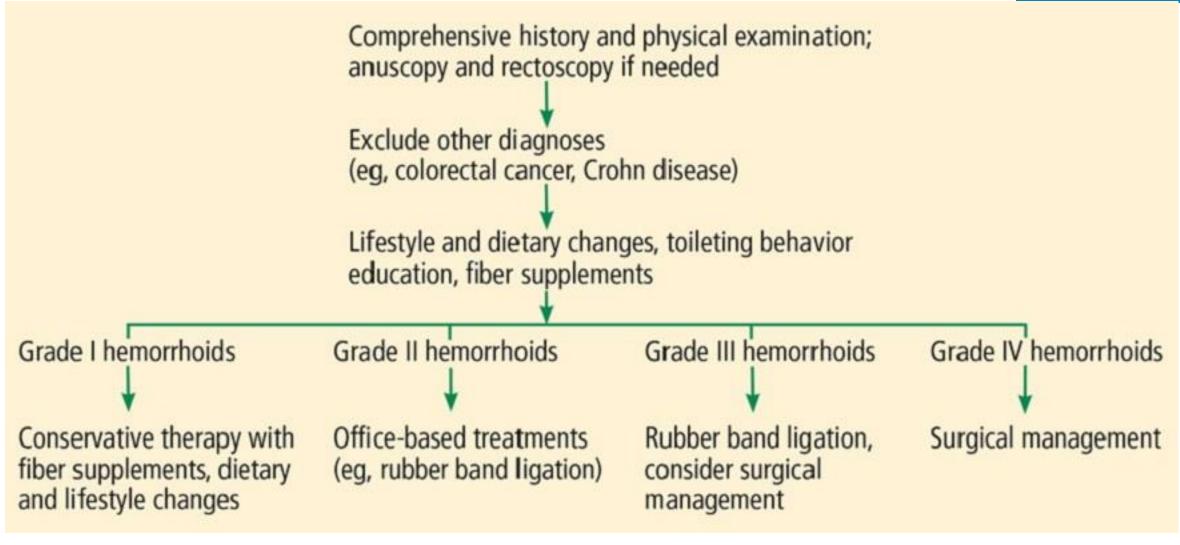
Hemorrhoids are vascular structures in the anal canal

- Risk factors
 - Constipation
 - Obesity
 - Pregnancy
 - Straining during defecation
 - Liver Cirrhosis
 - ••••





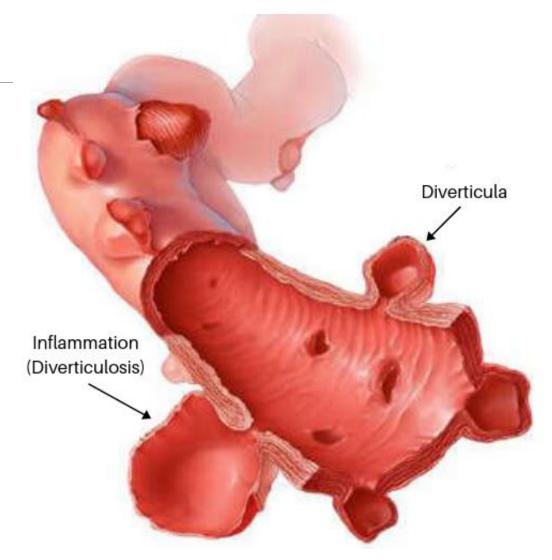






Diverticulosis

- most common cause of lower GI bleeding
- Diverticular hemorrhage resolves spontaneously in approximately 80 percent of patients
- recommended initial diagnostic test is colonoscopy





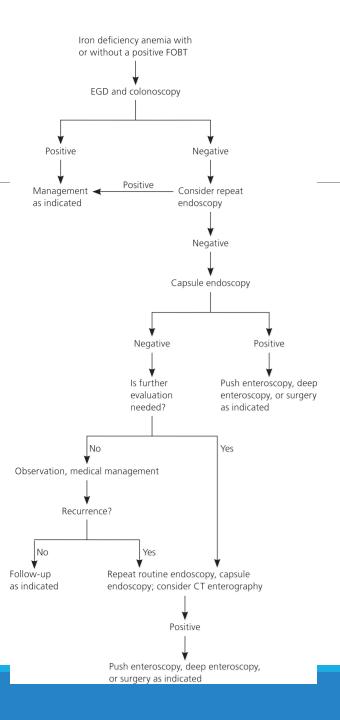
Diverticular Bleed

 If bleeding is massive or cannot be controlled by endoscopy treatment options include angioembolization (risk for perforation and ischemia), and surgery

Occult GI Bleed

 If negative UGI and LGI endoscopy consider push endoscopy or capsule endoscopy





حامعة

الملكسعود

King Saud University



Intra-abdominal Bleeding

- Trauma
- Vascular such as AAA or Splenic Aneurysm
- Ruptured Ectopic Pregnancy
- Perforated ulcer
- Ruptured neoplasm (hepatoblastoma)
- O



Thank you