Gastrointestinal Bleeding

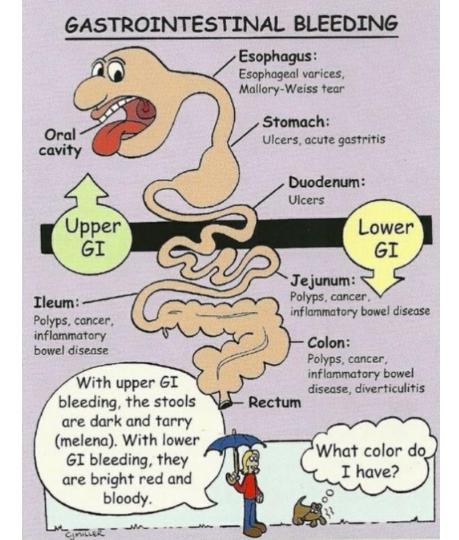
D Millar MD FACS University of Cincinnati Trauma and Emergency Surgery

Gastrointestinal bleeding



| Sources of Bleeding | Proportion of Patients, % |
|-------------------------|---------------------------|
| Ulcers | 31–67 |
| Varices | 6–39 |
| Mallory-Weiss tears | 2–8 |
| Gastroduodenal erosions | 2–18 |
| Erosive esophagitis | 1–13 |
| Neoplasm | 2–8 |
| Vascular ectasias | 0–6 |
| No source identified | 5–14 |

Upper or Lower GI Bleeding



Case 1

65 yo Female with known CAD, HLD, on ASA and statin admitted for syncope, has orthostatic hypotension, hemoglobin of 6 and a report of black tarry stools.

Initial resuscitation and workup?

Upper or Lower

Differential Diagnosis

Next steps and interventions

Keep it Simple and Do it the Same

ABC's

Secure Airway if needed

Large bore IV Access

Type and Cross, Transfuse as needed

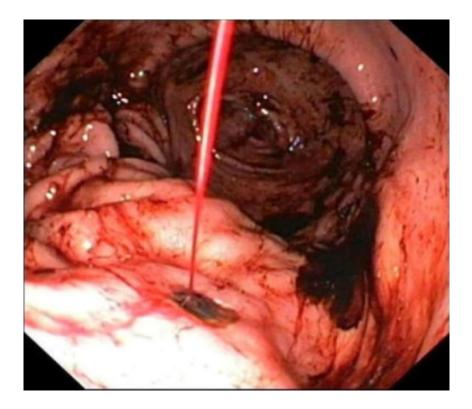
You're bleeding whole blood

Transfuse in appropriate ratios (One to One)

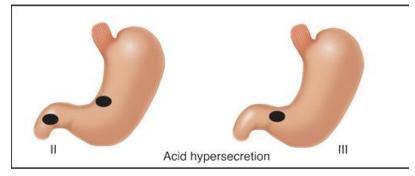
Locate source

NGT w Lavage

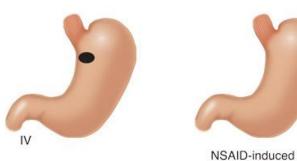
Peptic Ulcer Disease







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Intervention

Endoscopy

Cautery

Clip

inject

Helicobacter Pylori

Common Cause of Peptic Ulcer disease

Diagnosis: Biopsy, stool antigen, urea breath test, serology

Treatment

Omeprazole, amoxicillin, and clarithromycin (OAC) for 10 days Bismuth subsalicylate, metronidazole, and tetracycline (BMT) for 14 days Lansoprazole, amoxicillin, and clarithromycin (LAC), for either 10 days or 14 days

Case 2

45 yo Male with known ETOH cirrhosis complicated by mild ascites, caput medussa, chronic kidney disease from hepatorenal syndrome, but no encephalopathy or jaundice. He presents with large volume hematemsis with bright red blood, tachycardia, hypotension, and confusion.

Initial resuscitation and workup?

Upper or Lower

Differential Diagnosis

Next steps and interventions

Keep it Simple and Do it the Same

ABC's

Secure Airway if needed

Large bore IV Access

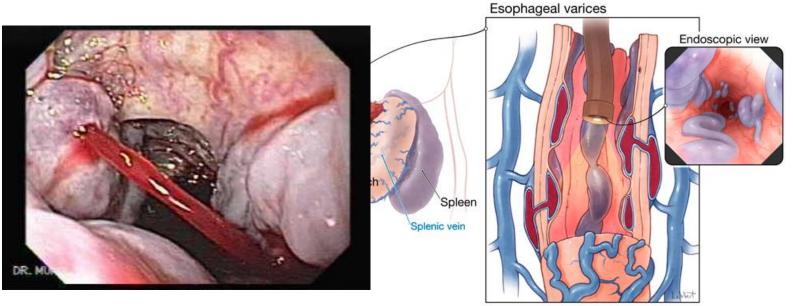
Type and Cross, Transfuse as needed

You're bleeding whole blood

Transfuse in appropriate ratios (One to One)

Locate source

Esophageal Varices



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Interventions

Endoscopic

Variceal banding

Sclerotherapy

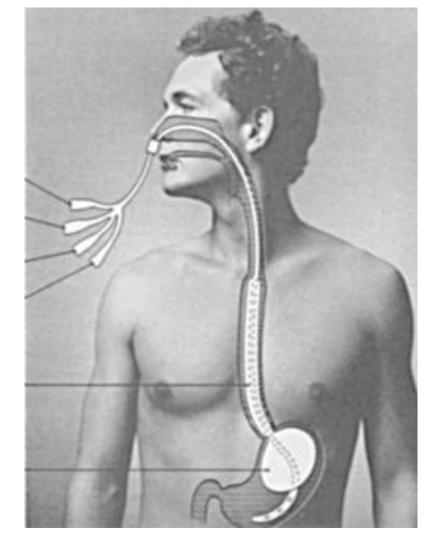
Tamponade

Sengstaken–Blakemore tube

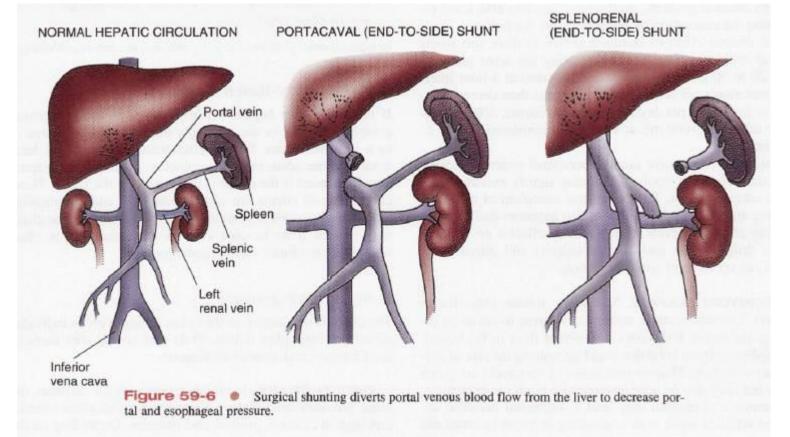
Minnesota Tube

Medical Therapy

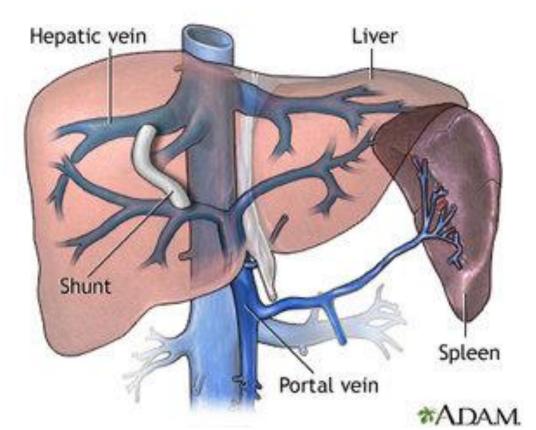
Octreotide and Vasopressin



Surgical or Endovascular Shunt



Transjugular Intrahepatic Portosytemic Shunt



Case 3

75 yo Male with DM2, CAD, HLD who presents with large volumes of bright red blood from his rectum. He is dizzy and lightheaded. HR 120 and blood pressure is 90/75. He has multiple bright red bloody stools in the ED. no nausea or vomiting.

Initial resuscitation and workup?

Upper or Lower

Differential Diagnosis



Keep it Simple and Do it the Same

ABC's

Secure Airway if needed

Large bore IV Access

Type and Cross, Transfuse as needed

You're bleeding whole blood

Transfuse in appropriate ratios (One to One)

Locate source

Upper or Lower???

Always rule out UGI Bleed with Hematochezia

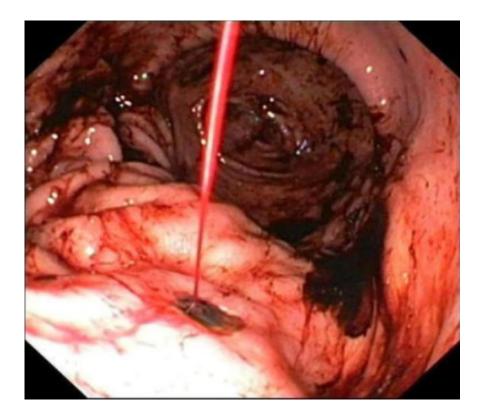
Endoscopy

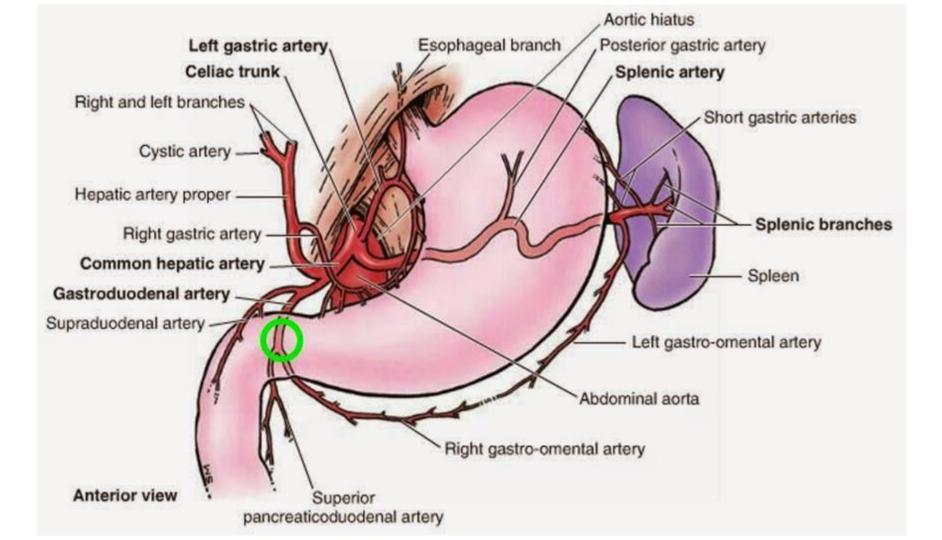
Inject

Clip

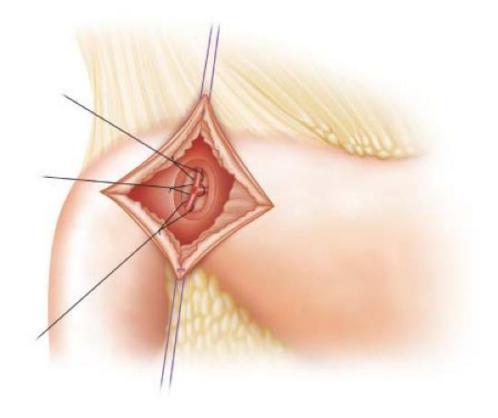
Cautery

What if this fails?





Surgery for Bleeding Ulcer

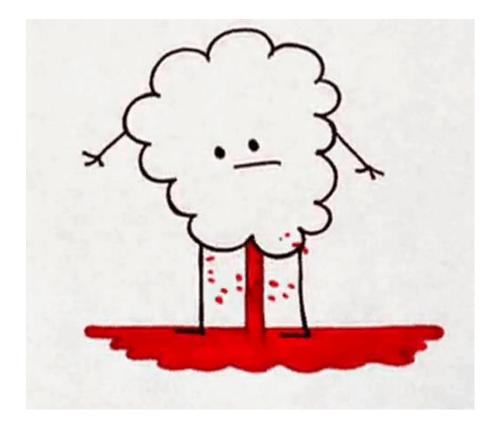


Case 4

75 yo Male with DM2, CAD, HLD who presents with large volumes of bright red blood from his rectum. He is dizzy and lightheaded. HR 120 and blood pressure is 90/75. He has multiple bright red bloody stools in the ED. no nausea or vomiting.

Upper Endoscopy is normal

Now What



Keep it Simple and Do it the Same

ABC's

Secure Airway if needed

Large bore IV Access

Type and Cross, Transfuse as needed

You're bleeding whole blood

Transfuse in appropriate ratios (One to One)

Locate source

Upper or Lower???

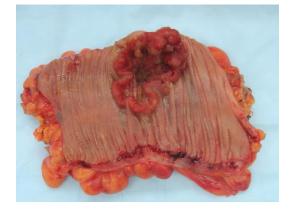
Presumed Lower GI Bleed

Diverticulosis

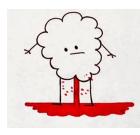
Hemorrhoids

anal fissures

vascular ectasias

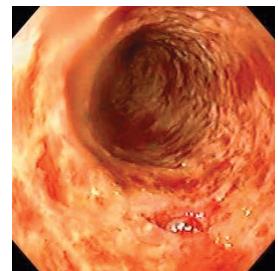






tomy bleeding







Diagnose, Localize and Intervene

Colonoscopy

Diagnosis

Clip

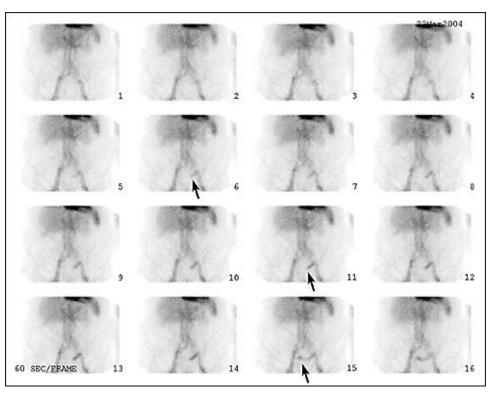
Tatoo

Radiology

Nuclear medicine: ≤0.1 mL/min

CT angiography: ≥0.35 mL/min

Angiography: ≥0.5 mL/min



Difficult Lesions to Localize

AVM / Telengectasias

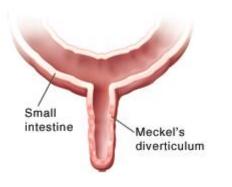
Jejunal and Ileal Lesions or Tumors

Hemobilia



Pediatrics

Meckel's Diverticulum







Mallory-Weiss Tears

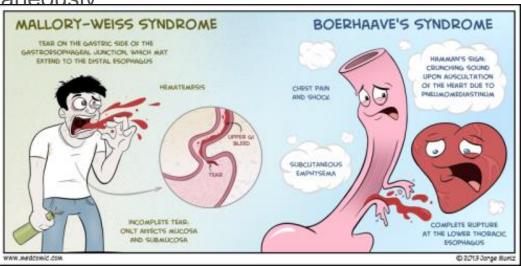
Nontransmural tear at the gastroesophageal junction

Most patients present with hematemesis. Antecedent vomiting

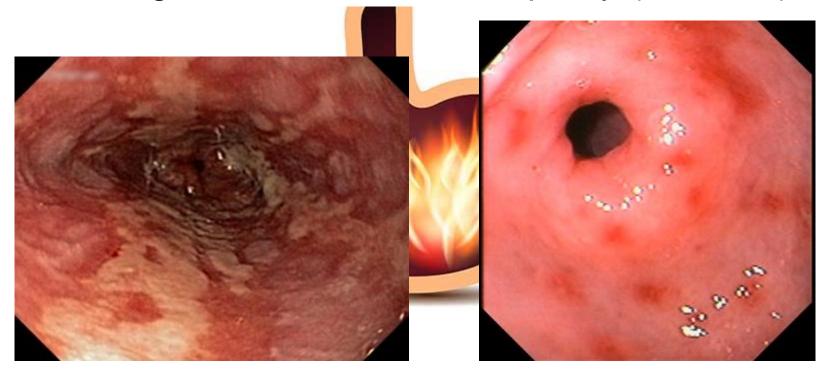
Bleeding usually abates spontaneously

May respond to local epinephrine embolization.

Surgery is rarely needed.



Hemorrhagic and Erosive Gastropathy (Gastritis)



Catastrophic Bleeding- Aortoenteric Fistula

