OG Bleeds

Presentation

- Jack Black, 62 year old male presents to ED at 1500 on a Sunday complaining of abdominal pressure and states he has had a black vomit. He has been at his son's wedding on Saturday, celebrating since Thursday. During the weekend, he has been drinking beer, champagne, and whisky.
- What information do you require?

Pain assessment

- Site: across the middle of the abdomen
- Onset: since Friday
- Duration: constant
- Frequency: has happened before, at his son's stag party in Newcastle
- Radiation: occasionally left flank pain and epigastric pain
- Severity: 8/10
- Nature: pressure and ache
- Associated symptoms: nausea, heartburn, coffee ground emesis x 1

PmHx

- HTN on lisinopril
- Fractured ankle 6 months ago after a fall at a retirement party- required surgical pinning

Medications:

- Lisinopril
- Occasional Ibuprofen and paracetamol for ankle pain
- NKDA
- No other OTC, herbal remedies, or illicit drugs

Social history

- Divorced with 2 adult children
- Lives in a flat
- Works as a bank manager
- Watches football at the pub and goes to home games
- Drinks 2 pints of ale most nights with a whisky before bed during the week, more at weekends
- Smokes 10/day since he was 16 (23 pack years)

Clinical Assessment/Exam

- Obese, BMI 32
- Pale, diaphoretic, clammy
- HR 112bpm, regular
- RR 22/min
- BP 140/90mmHg
- Saturations 94% on room air.

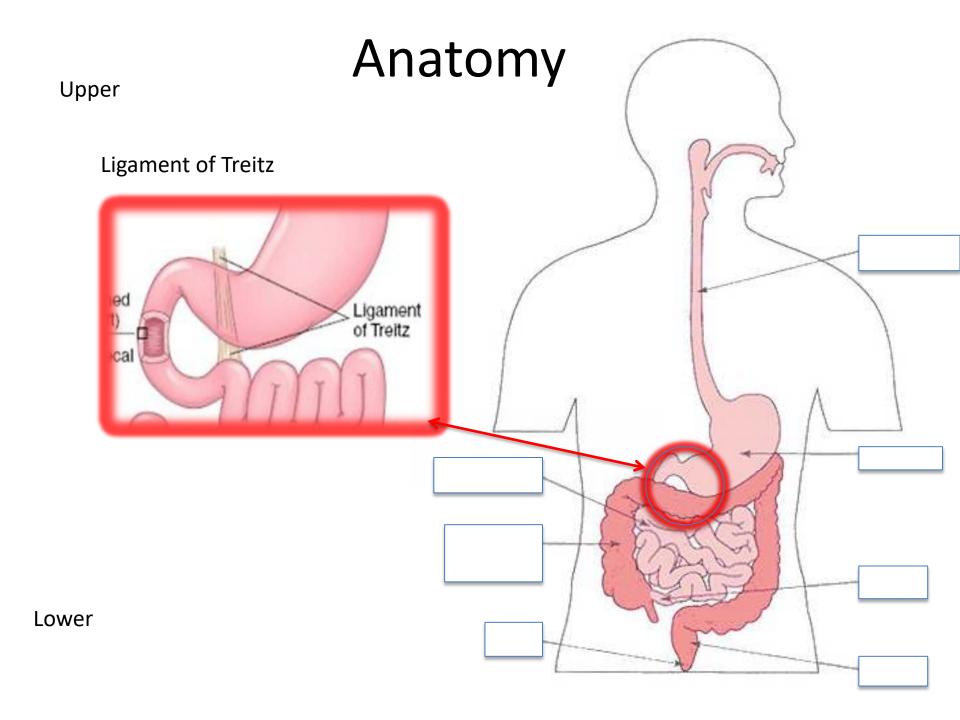
Clinical signs

- Elevated JVP
- Distended abdomen, bowel sounds present
- Abdomen tender on exam, particularly near umbilicus and left upper quadrant/left hypochondriac
- Liver signs: palmar erythema, dupuytren's contracture, clubbed fingernail beds, spider naevi, no hair in axilla
- What is your impression?

Impression

- UGI bleed: duodenum, stomach, esophagus.
 Indicated by coffee ground emesis and malena, not active at present. *
- 7000 admissions/year/Scotland, mortality 7% if admitting dx, 26% if admitted for another reason. Mortality west of Scotland 8.2%

*haematemasis, malena, hematochezia



What actions do you need to take?

Blatchford and Rockhall scoring

Risk Assessment Tools

Pre-endoscopy

A Blatchford Score	
At Presentation	Points
Systolic blood pressure	
100–109 mm Hg	1
90–99 mm Hg	2
<90 mm Hg	3
Blood urea nitrogen	
6.5–7.9 mmol/liter	2
8.0–9.9 mmol/liter	3
10.0–24.9 mmol/liter	4
≥25 mmol/liter	6
Hemoglobin for men	
12.0-12.9 g/dl	1
10.0–11.9 g/dl	3
<10.0 g/dl	6
Hemoglobin for women	
10.0–11.9 g/dl	1
<10.0 g/dl	6
Other variables at presentation	
Pulse ≥100	1
Melena	1
Syncope	2
Hepatic disease	2
Cardiac failure	2

Risk Assessment Tools

Rockall Score

Variable	Score 0	Score 1	Score 2	Score 3
Age (years)	<60	60-79	>80	
Comorbidity	Nil major		Congestive heart failure, ischaemic heart disease	Renal failure, liver disease, metastatic cancer
Shock	No shock	Pulse >100 bpm	Systolic BP <100 mmHg	
Source of bleeding	Mallory-VVeiss tear	All other diagnoses: e.g., oesophagitis, gastritis, peptic ulcer disease, varices	Malignancy	
Stigmata of recent bleeding	None		Adherent clot, spurting vessel	

Further actions

- Monitoring, contact endoscopy, admit, bloods:
- FBC, Us&Es, coag, x-match, LFTs
- What would you anticipate: AST/ALT, GGT
- ABG?
- HB 88 Lactate 4

- Jack says he suddenly feels much worse and vomits into a sick bowl 400mL of frank blood
- HR 130bpm, BP 110/60mmHg, RR 24/min, sats 88% on RA.
- Becoming confused, removing oxygen, distressed by nausea and abdo pressure
- What actions are now required?

Final Considerations



- Vomits again, 300mL frank blood and is incontinent of malena
- HR 130bpm ST and thready, BP 95/60mmHg, RR 24/min, sats 93% with oxygen with incoherent and removing mask.
- Actions:
- Recognise shock: give fluids, notify major haemmorhage, intubate?, ICU

Fluid Resuscitation



Causes

Upper

- Peptic ulcer (44%)
- Oesophagitis
- Gastritis
- **VARICES (13%)**
- Mallory weiss tear(5%)

Lower

- Angiodysplasia (small bowel)
- Diverticular disease (Large Bowel)

(SIGN, 2008., Patient.co.uk)

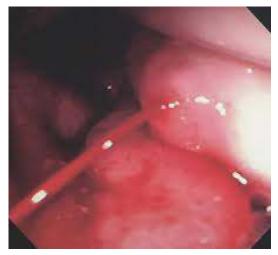
Varices



Normal Oesophagus

Distended Vein





Bleeding Varice

Varices and the Liver

- Variceal haemorrhage may be suspected if:
 - History of previous haemorrhage
 - When there is known liver disease
 - Clinical assessment identifies 'stigmata' of chronic liver disease or portal hypertension
 - Portal HTN defined as elevation of portal venous pressure gradient >5mmHg

Endoscopy

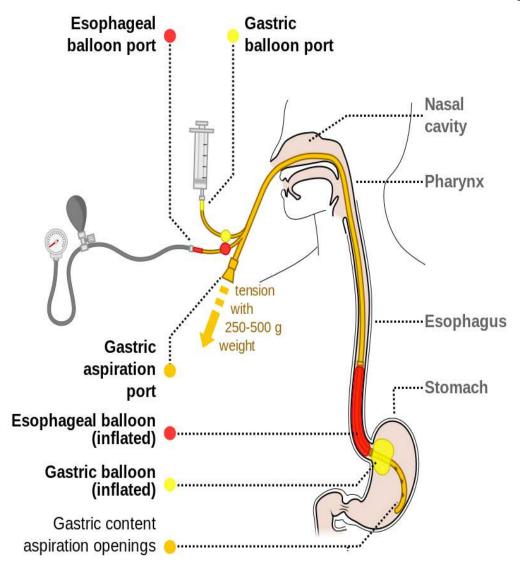
- Endoscopy: banding attempted but unsuccessful
- Continuing to bleed
- Sengstaken inserted



Treatment

- Offer terlipressin to patients with suspected variceal bleeding at presentation. Continue until homeostasis is achieved, or for 5 days.
- Offer prophylactic antibiotic therapy at presentation with suspected or confirmed variceal bleeding.

Balloon Tamponade



 Pressure applied to sengstakenblakemore

tube with tongue depressors

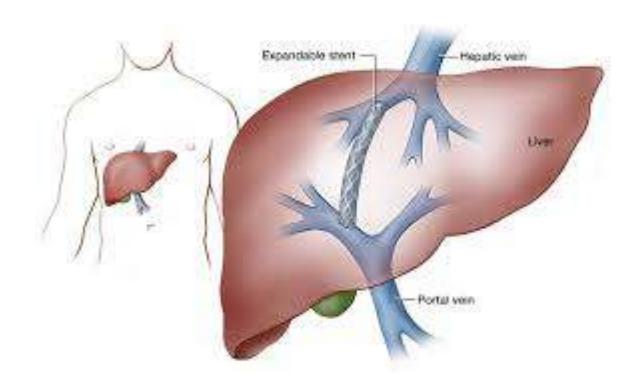
- Oesophageal Balloon Inflated to achieve homeostasis
- Gastric Balloon can also be Inflated if homeostasis not achieved
- Gastric Aspiration port allows for removal of blood from stomach
- Oesophageal balloon should be deflated periodically to reduce risk of oesophageal necrosis
- Balloon pressure gradually
 Reduced under surgical guidance

Outcome

- Jack tolerates sengstaken tube, is on Terlipressin = bleeding controlled.
- Extubated
- Liver function and varices are discussed
- Consents for TIPSS

TIPSS

• Trans-jugular Intrahepatic Portosystemic Shunt



Re-bleeding

- 50% risk of re-bleeding in first day following management of acute haemorrhage
- 80% risk of re-bleeding within first year
- Consideration should be given to the introduction of a beta-blocker prior to discharge (propanalol)
- Portosystemic shunt considered to be most effective in reducing risk of re-bleeding in patients with chronic liver failure.

• Jack is discharged home

