			Upper GIT BI	eeding			
		•	ng is a potentially life-threaten	ing (very frequent) abdomina	l emergency that remains a common cause of		
	 hospitalization. Can be categorized as either variceal or bbb. Variceal is a complication of end stage liver disease, While non variceal bleeding associated with peptic ulcer disease or other causes of UGIB. Oesophageal varices , Bleeding Peptic ulcer, Gastritis and are the common causes for hemorrhage. 						
Introduction	Acute bleeding stops spontaneously in 75 % cases.						
			mesis or melena, and when se liagnosis prognosis and the po		atochezia		
		Endoscopy can provide the diagnosis, prognosis, and the potential for therapy.					
Definition		Upper gastrointestinal bleeding (UGIB) is defined as bleeding derived from a source proximal to the ligament of Treitz.					
Presentations	fresh/u 2. Meler	unaltered blood (gross	blood and clots, indicates rap artially digested blood (black ta	id bleeding) arry, semisolid, shiny and ha	a emesis that indicate slower rate of bleeding) or a distinctive odor, when its present it indicates that site, the more likely melena will occur.		
Tresentations	3. Massive GIT haemorrhage: Rapid loss of at least one liter of blood or acute blood loss of any volume sufficient to cause hypovolaemia.						
	 Patients presenting with haematemesis have a higher mortality than those presenting with melaena alone. Coffee-ground vomitus refers to the vomiting of black material which is assumed to be blood. Its presence implies that bleeding like the presence implies the presence implies that bleeding like the presence implies that bleeding like the presence implies that bleeding like the presence implies the p						
	Melaer	 Hematochezia is the passage of fresh or altered blood per rectum usually due to colonic bleeding. Occasionally profuse upper gastrointesting 					
Shock	or small bowel bleeding can be responsible. Shock is circulatory insufficiency resulting in inadequate oxygen delivery leading to global hypoperfusion and tissue hypoxia. In the context of Gl bleeding shock is most likely to be hypovolaemic (due to inadequate circulating volume from acute blood loss). The shocked, hypovolaemic patient generally exhibits one or more of the following signs or symptoms: a rapid pulse (tachycardia) anxiety or confusion a high respiratory rate (tachypnoea) cool clammy skin low urine output (oliguria) blood pressure (hypotension).						
	lt is importa	nt to remember that a	patient with normal blood pres	sure may still be shocked ar	d require resuscitation.		
		Features	Hemoptysis	Haematemesis			
Analysis of UGIB,		Definition	Coughing out of blood Symptoms of pulmonary and	Vomiting out of blood Symptoms of upper GI tract			
firstly exclude		ymptoms	CVS disease	diseases			
epistaxis / hemoptysis	Content & colour		Mixed with sputum & bright red in colour	coffee-ground in colour			
	Premonitory symptoms		Cough, salty sensation in throat	abdominal discomfort.			
	M	lelena	Does not occur	Usually followed by melaena the next day			
		mount	Relatively less	Huge in amount			
	ĸ	eaction	Alkaline	Acidic			
Causes of UGIB	2.Esophageal causes2.Esophageal causes		phageal varices phagitis phageal cancer phageal ulcers ory-Weiss tear				
	Gastric 2. Gast Gastric 3. Gast causes 4. Gast		stric ulcer stric cancer stritis stric varices ulafoy's lesions				
Causes of UGIB		3. Gast 4. Gast	tritis tric varices				

Ddx	Most common 1. Peptic ulcer disease 2. Gastroesophageal varices 3. Erosive esophagitis/ gastritis/ duodenitis				
Uncommon Causes of non variceal bleed (< 5%)	 Gastroesophageal reflux disease Esophageal ulcer Cameron lesion Stress ulcer Drug induced erosions Angioma Dieulafoy's lesion Watermelon stomach Watermelon stomach Portal hypertensive gastropathy Aorta-enteric Fistula Benign tumours ,Malignant tumour Osler-Weber-Rendu syndrome Haemobilia Hemosuccus pancreatitis Infections(CMV,HSV) Stomal ulcer Zollinger-ellison syndrome 				
	 Helpful to find out the site and cause History suggestive of acid – peptic disease Alcoholic liver diseases / chronic hepatitis / Cirrhosis History of anticoagulant / anti platelets / NSAIDS / Alcohol binge intake / steroids History of Coagulation disorder BURN, Sepsis, Head Trauma may have stress ulcers Past medical :previous episodes of upper gastrointestinal bleeding, diabetes mellitus; coronary artery disease; chronic renal or liver disease; or chronic obstructive pulmonary disease Past surgical: previous abdominal surgery 				
Diagnosis	1. Hematemesis 7. Heartburn 2. Melena 8. Diffuse abdominal pain 3. Hematochezia 9. Dysphagia 3. Hematochezia 10. Weight loss symptom 5. Dyspepsia 11. Manifestations of liver cell failure eg,Jaundice,ascites 6. Epigastric pain 11. Manifestations of liver cell failure eg,Jaundice,ascites				
	 Pulse = Thready, BP = Orthostatic Hypotension Signs of dehydration (dry mucosa, sunken eyes, skin turgor reduced). SKIN changes a) Cirrhosis – Palmer- erythema, spider angioma b) Bleeding diasthasis – Purpura /Echymosis c) Coagulation Disorder – Haemarthrosis, Muscle Hematoma P/A :- a) Liver , Spleen, ascites = Cirrhosis b) Epigastric Tenderness = APD/ Ulcer Respiratory, CVS, CNS → For comorbid diseases 				
Lab diagnosis	 CBC with Platelet Count, and Differential A complete blood count (CBC) is necessary to assess the level of blood loss. CBC should be checked frequently(q4-6h) during the first day. Type and Crossmatch Blood The patient should be crossmatched for 2-6 units, based on the rate of active bleeding. The hemoglobin level should be monitore serially in order to follow the trend. An unstable Hb level may signify ongoing hemorrhage requiring further intervention. LFT- to detect underlying liver disease RFT- to detect underlying renal disease Calcium level- to detect hyperparathyroidism and in monitoring calcium in patients receiving multiple transfusions of citrated blood Gastrin level Cardiac enzymes and ECG- An electrocardiogram (ECG) should be ordered to exclude arrhythmia and cardiac disease, especially acute myocardial infarction due to hypotension 				
Nasogastric lavage	 A nasogastric tube is an important diagnostic tool. This procedure may confirm recent bleeding (coffee ground appearance), possible active bleeding (red blood in the aspirate that does not clear), or a lack of blood in the stomach (active bleeding less likely but does not exclude an upper Gl lesion). Benefits of lavage : Better visualization during endoscopy. Give crude estimation of rapidity of bleeding. Prevent the development of porto-systemic encephalopathy in cirrhosis. Increases PH of stomach and hence decreases clot dissolution due to gastric acid dilution During gastric lavage use saline and not use large volume of water to avoid water intoxication. Gastric lavage should be done in alert and cooperative patient to avoid broncho-pulmonary aspiration If gastric aspirate either is grossly bloody or yields coffee ground effort should be made to lavage the stomach before proceeding to diagnostic or therapeutic endoscopy. The presence of bloody gastric aspirate confirms UGI Bleed. A negative aspirate (16%) does not exclude an upper bleeding. For Example in case of duodenal ulcer due to absence of duodenogastric reflux aspirate is clear 				
Endoscopy	 Initial diagnostic examination for all patients presumed to have UGIB Endoscopy should be performed immediately after endotracheal intubation (if indicated), hemodynamic stabilization, and adequate monitoring in an intensive care unit (ICU) 				

Angiography	 Angiography may be useful if bleeding persists and endoscopy fails to identify a bleeding site. Angiography requires active bleeding (1 mL/min) to be diagnostic. Angiography along with transcatheter arterial embolization (TAE) should be considered for all patients with a known source of arterial UGIB that does not respond to endoscopic management, with active bleeding and a negative endoscopy.
Management	Management of UGIB GENERAL MEDICAL MANAGEMENT VARICEAL BLEEDING VARICEAL BLEEDING MEDICAL PRESSURE TECHNIQUES ENDOTHERAPY SURGICAL INERVENTION
General management	 Vitals are monitored Assessment of severity of blood loss :- An orthostatic decrease of 20 mm Hg in systolic blood pressure or increases in the pulse of 20 beats / min. indicate - 10% blood loss, if pt is pulsless and in shock- > 20% loss. Insertion of central venous line may be beneficial to measure adequacy of fluid replacement and perfusion of vital organ . Order CBC,LFT,creatinin, BUN,sugar, grouping and cross matching of blood. Fluid resuscitation is done by crystalloids such as normal saline or RL if hypoalbuminemia is detected use colloids. Monitor urine output. Oxygen support to prevent hypoxia of tissues Placing the patient in trendelenburg position to maintaine cerebral blood flow.
Nb	Transfuse blood for a) Obvious massive blood loss b) Hematocrit < 25% with active bleeding
Treatment of non-variceal bleeding	 C Endoscopy is now the method of choice for controlling active peptic-ulcer related UGIB. C Endoscopic therapy should only be delivered to actively bleeding lesions, non-bleeding visible vessels and, when technically possible, to ulcers with an adherent blood clot. C Black or red spots or a clean ulcer base with oozing do not merit endoscopic intervention since these lesions have an excellent prognosis without intervention.
Treatment of variceal bleeding	Oesophageal varices: • Band ligation • Stent insertion is effective for selected patients • Transjugular intrahepatic portosystemic shunts (TIPS) should be considered if bleeding from oesophageal varices is not controlled by band ligation. Gastric varices: • Endoscopic injection of N-butyl-2-cyanoacrylate should be used. • TIPS should be offered if bleeding from gastric varices is not controlled by endoscopic injection of N-butyl-2-cyanoacrylate
Surgical management	 TIPS (transjugular intrahepatic porto-systemic shunt): transjugular approach→ connect portal v. and hepatic v. → reduce portal v. pressure gradient to < 12-15 mmHg Complications include: bleeding, dye-induced renal failure, hemolysis, stent migration, and puncture of the gallbladder or other organs adjacent to the liver.
Prognostic factors	Adverse prognostic factor in UGIB 1. Age over 60 2. Shock(SBP<100mmhg), pulse >100 3. Malignancy or varices as bleeding source. 4. Severe coagulopathy 5. Comorbid medical illness 6. Continued or recurrent bleeding 7. Severe active Bleeding (Hypotension, multiple transfusion, bright red nasogastric aspirate) 8. Endoscopically identified arterial bleeding or visible vessel

