

Acute Upper Gastrointestinal Bleed (AUGIB) Guideline

This guidance does not override the individual responsibility of health professionals to make appropriate decision according to the circumstances of the individual patient in consultation with the patient and /or carer. Health care professionals must be prepared to justify any deviation from this guidance.

Introduction

Acute upper gastrointestinal bleed (AUGIB) is a common medical emergency in the UK with an estimated incidence of 134 per 100,000 population^[1], translating to around 2-3 patients presenting daily to our Trust. The key to optimal AUGIB management is early recognition and resuscitation followed by timely OGD (Oesophago-Gastro-Duodenoscopy). Despite published national guidelines, the overall care for patients with AUGIB was found to be suboptimal in the majority of cases in the NCEPOD audit 'Time to Get Control' in 2015^[5]. These Trust guidelines are adapted from the British Society of Gastroenterology (BSG)-led multi-society consensus care bundle for the early clinical management of acute upper gastrointestinal bleeding^[6].

This guideline is for use by the following staff groups:

All Medical Staff

Lead Clinician(s)

Dr D Cheung Consultant Gastroenterologist

Approved by the Gastroenterology Directorate: 17th June 2025

Approved by Divisional Management Board: 17th June 2025

Approved by Medicines Safety Committee: 22nd March 2022

Review Date: 17th June 2028

This is the most current document and should be used until a revised version is in place

Key amendments to this guideline

Date	Amendment	Approved by:
March 2022	New guideline approved	Gastroenterology Directorate, DMB, MSC
June 2025	Document approved with no changes	Dr Cheung

Contents

Key amendments to this guideline.....	2
Contents	3
Abbreviations	4
Introduction	5
1. Recognition and assessment of AUGIB	5
2. Initial management.....	6
3. Ongoing management.....	7
4. Referring for OGD	9
5. Post OGD management.....	11
6. Re-bleeding management.....	12
Monitoring	13
References	14
Contribution List.....	15
Appendix A: Acute upper gastrointestinal bleeding bundle	16
Appendix B: Major haemorrhage protocol	17
Appendix C: Decompensated cirrhosis care bundle	18
Supporting Document 1 - Equality Impact Assessment Tool	20
Supporting Document 2 – Financial Impact Assessment.....	23

Abbreviations

Acronym	Abbreviations
AUGIB	Acute upper gastrointestinal bleeding
BSG	British Society of Gastroenterology
BP	Blood pressure
bpm	Beats per minute
ECG	Electrocardiogram
ED	Emergency department
FBC	Full blood count
FFP	Fresh frozen plasm
GBS	Glasgow Blatchford Score
Hb	Haemoglobin
IR	Interventional radiology
IV	Intravenous
LFTs	Liver function tests
MHP	Major haemorrhage protocol
NSAID	Non-steroidal anti-inflammatory drugs
NCEPOD	National Confidential Enquiry into Patient Outcome and Death
OGD	Oesophago-gastro-duodenoscopy
PCI	Percutaneous coronary intervention (stents)
PPI	Proton pump inhibitors
qds	<i>quater die sumendum</i> (4 times daily)
U+Es	Urea and electrolytes

Introduction

Acute upper gastrointestinal bleed (AUGIB) is a common medical emergency in the UK with an estimated incidence of 134 per 100,000 population^[1], translating to around 2-3 patients presenting daily to our Trust. There is significant risk of mortality from AUGIB which has been reported as between 6.7 to 14.4% in the UK^[2-5]. The risk of mortality is even greater in patients who develop AUGIB as an inpatient (table 1). The key to optimal AUGIB management is early recognition and resuscitation followed by timely OGD. Despite published national guidelines, the overall care for patients with AUGIB was found to be suboptimal in the majority of cases in the NCEPOD audit 'Time to Get Control' in 2015^[5]. These Trust guidelines are adapted from the British Society of Gastroenterology (BSG)-led multi-society consensus care bundle for the early clinical management of acute upper gastrointestinal bleeding^[6].

As with any guidelines, this guideline aims to provide a framework for managing AUGIB but does not replace clinical judgement and each patient's care must be tailor to the circumstances of the individual, in consultation with them and their families and carers or guardian.

Table 1: Mortality risk in patients with AUGIB

Study	Mortality rate		
	Overall	AUGIB on admission	Developed AUGIB as inpatient
Rockall <i>et al</i>, 1995[3]	14%	11%	33%
Blatchford <i>et al</i>, 1997[4]	8.1%	6.7%	42%
NCEPOD 2015[5]	23.7%	14.4%	37.7%

Details of Guideline

1. Recognition and assessment of AUGIB

1.1 Presentation

Acute upper gastrointestinal bleeding (AUGIB) should be suspected in patients presenting with:

- **Haematemesis (blood in vomit)**
 - Bright red blood – implies active haemorrhage
 - Coffee ground vomitus – altered/ partially digested blood (if associated with falling Hb/ raise serum urea)
- **Melaena (black tarry stool)** - digested blood in stool
- **Haematochezia (bright red rectal bleeding)**
 - Usually arises from the lower GI tract – refer/ assess by on call surgical team
 - If haemodynamic compromise and/or raised serum urea: creatinine ratio – consider AUGIB

1.1.1 Clinical assessment

History

- Haematemesis, melaena, (haematochezia)
- History of weight loss
- Past medical history: chronic liver disease, previous AUGIB, peptic ulcer disease
- Medications: NSAIDs, anticoagulants, antiplatelets

- Family history: coagulopathy
- Social history: excess alcohol consumption
- Time of last meal consumed

Clinical examination

- Evidence of shock (pulse, blood pressure, postural blood pressure) – see table 2
- Anaemia
- Stigmata of liver disease, jaundice, ascites
- Features of bleeding disorders (petechiae)
- Buccal or facial telangiectasia
- **Digital rectal examination - should be performed in all patients with suspected AUGIB**

Table 2: Classification of hypovolemic shock[7]

	Class I	Class II	Class III	Class IV
Blood loss, volume (ml)	<750	750-1500	1500-2000	>2000
Blood loss (% of circulating blood)	0-15	15-30	30-40	>40
Systolic BP	No change	Normal	Reduced	Very reduced
Diastolic BP	No change	Raised	Reduced	Very reduced/unrecordable
Pulse (bpm)	Slightly tachycardia	100-120	120 (thready)	>120 (very thready)
Respiratory rate	Normal	Normal	Raised (>20/min)	Raised (20/min)
Mental state	Alert, thirsty	Anxious or aggressive	Anxious, aggressive or drowsy	Drowsy, confused or unconscious

2. Initial management

1. ABCDE approach
2. Secure venous access: minimum of 2 green (18G) venflons
3. Early fluid resuscitation (crystalloid or blood) aiming for systolic BP >100mmHg
4. Urgent bloods: FBC, U&Es, LFTs, clotting, group and save/ cross match
5. Venous gas for rapid Hb estimate

Early critical care involvement is recommended in unstable patients

- Airway compromise, hypoxia (requiring >4L/min via nasal cannulae)
- Persistent haemodynamic instability
- Reduced consciousness (e.g. patients with hepatic encephalopathy)

1.2 Acute upper gastrointestinal bleeding bundle

The UK acute upper GI bleeding bundle (appendix A) is a cross society one page *aide memoire* for the initial 24 hours management of AUGIB. It has been developed by the British Society of Gastroenterology, in conjunction with the Society of Acute Medicine (SAM) and the Association of Upper Gastrointestinal Surgeons of Great Britain and Ireland (AUGIS). **This should be used for all patients with suspect AUGIB.**

2.1.1 Major haemorrhage protocol

In severe uncontrolled haemorrhage or patients in keeping of severe hypovolemic shock class IV (see table 2) – activate the Major haemorrhage protocol (MHP, appendix B) by calling 2222:

- Inform switchboard of major Haemorrhage, location and contact number
- The switchboard will activate bleeps in the MHP team (blood bank, porters, anaesthetist, theatre bleep, senior nurse and medical registrar)
- The Laboratory will issue major haemorrhage pack 1, consisting of:
 - 4 units of red cells
 - 4 units of Octoplas (or FFP) will be defrosted and issued
 - Clinical area to notify lab to request MHP 2 if required

Full major haemorrhage protocol can be found at:

www.treatmentpathways.worcsacute.nhs.uk/EasysiteWeb/getresource.axd?AssetID=153852&servicetype=Attachment

3. Ongoing management

- Check blood glucose
- Monitor hourly urine output
- 12 lead ECG
- For the first hour, observations repeated at 15 minute in all patients
- Keep nil by mouth
- Transfusion – **avoid over transfusion which increases re-bleeding and mortality risk[8]**
 - In haemodynamically stable patients – transfuse if Hb <70g/L (target 80-100g/L)
 - If severe cardiovascular disease – transfuse if Hb <80g/L
- **Do not routinely give Tranexamic acid iv as no evidence of mortality reduction and may increase risk of venous thromboembolic events in patients with AUGIB[9].**
- **For suspected variceal bleeds**
 - **Terlipressin IV (2mg bolus, then 1-2mg IV QDS for up to 5 days)** - acts as a vasopressor to increase systemic vascular resistance, reduce cardiac output and reduces portal hypertension. Use with caution in patients with:
 - Severe peripheral vascular disease
 - Ischaemic heart disease
 - Severe hyponatraemia
 - Prolonged QTc interval on ECG
 - **Intravenous antibiotics (Refer to MICROGUIDE for up to date guidance)**
 - [Piperacillin with tazobactam \(Tazocin\) 4.5g IV TDS](#)
 - If NON-SEVERE penicillin allergy [Cefuroxime 1.5g IV TDS plus Metronidazole 500mg IV TDS](#)
 - If SEVERE penicillin allergy [Ciprofloxacin 400mg IV BD plus Metronidazole 500mg IV TDS](#)
- **Use the BSG cirrhosis care bundle (appendix C) for patients with established cirrhosis**
 - The care bundle form pre-filled with patient details can be generated on CLIP by searching 'cirrhosis' in the name box or 'WR5109' in the code box

Acute Upper Gastrointestinal Bleed (AUGIB) Guideline		
WAHT-GAS-012	Page 7 of 23	Version 2

1.3 Correct clotting abnormalities

Coagulopathy and active bleeding	Management
Thrombocytopenia (platelets $<50 \times 10^9/L$)	Platelet transfusion[10]
Warfarin*	IV prothrombin complex (e.g. Octaplex)[10]
NOACs/DOACs (e.g. Rivaroxaban, Dabigatran, Apixaban, Edoxaban)*	Contact the on-call Haematologist for advice
Dual antiplatelet therapy for coronary stents	Discussed with on call gastroenterologist/ cardiologist

*Patients at high risk of thrombosis e.g. recent major PE, metallic mitral heart valve – require urgent discussion with the on call haematologist

3.1.1 Risk assessment

Following resuscitation and initial management, patients should be assessed for severity of AUGIB. Commonly used assessment score includes Glasgow Blatchford Score (GBS) (table 3) and the Rockall score (table 4). GBS predicts likelihood of needing intervention (blood transfusion and/or endotherapy) which in patients scoring ≥ 6 has a 50% risk of requiring intervention. Rockall score predicts mortality risk which can be calculated pre-OGD (maximum score of 7) and/or post-OGD (maximum score of 11). Use the index parameters prior to fluid resuscitation e.g. using first paramedic observations as aggressive resuscitation may mask severity of AUGIB.

Table 3: Glasgow-Blatchford score^[4]

Admission parameter		Score value
Urea (mg/dL)	≥ 6.5 to <8.0	2
	≥ 8.0 to <10.0	3
	≥ 10.0 to <25.0	4
	≥ 25.0	6
Haemoglobin (g/dL) – Male	≥ 12.0 to <13.0	1
	≥ 10.0 to <12.0	3
	<10.0	6
Haemoglobin (g/dL) – Female	≥ 10.0 to <12.0	1
	<10.0	6
Systolic BP (mmHg)	100 to 109	1
	90-99	2
	<90	3
Other parameters	Pulse >100 bpm	1
	Melaena at presentation	1
	Syncope	2
	Hepatic disease	2
	Cardiac failure	2

Table 4: Rockall score – pre-endoscopy^[3]

Variable	Score			
	0	1	2	3
Age	<60 years	60-79 years	≥80 years	
Shock	No shock: Systolic BP ≥100mmHg, pulse <100 bpm	Tachycardia: Systolic BP ≥100mmHg, pulse ≥100 bpm	Hypotension: Systolic BP <100mmHg	
Comorbidity	No major comorbidity		Cardiac failure, ischaemic heart disease, any major comorbidity	Renal failure, liver failure, disseminated malignancy

Pre-endoscopy Rockall score	Mortality risk (%)
0	0.2
1	2.4
2	5.6
3	11.0
4	24.6
5	39.6
6	48.9
7	50.0

4. Referring for OGD

- **All patients with AUGIB should be urgently reviewed by a senior decision maker (ST3 or above) before requesting OGD**
- All patients with AUGIB should receive OGD within 24 hours of admission or presentation (except in low risk patients)[10]
- Offer OGD to unstable patients with severe AUGIB immediately after resuscitation[10]

Practical considerations

- It is essential OGD referral is made in a timely manner following initial management
- Ensure the patient is kept nil by mouth (minimum 6 hours prior to OGD to reduce risk of aspiration and ensure adequate endoscopic views)
- **Patients must be admitted to a hospital ward and as they cannot 'back track' to ED post OGD**
- **High risk patients who are haemodynamic unstable may need to have their OGD performed in CEPOD theatre with anaesthetic support (either clinical decision by the on-call Gastroenterologist and/or the patient has not be admitted/ allocated a bed)**
 - In this scenario, the admitting doctor will need to liaise with the on call anaesthetic/ critical care team and the CEPOD theatre coordinator
 - Bearing in mind during out of hours, the endoscopy team often takes between 30-60 minutes to return to the hospital and set up equipment before OGD can take place
 - The endoscopist will recommend the appropriate destination ward following OGD, if no bed is available then patient to be monitored in theatre recovery by theatre staff while waiting for bed
- Unstable patients should be managed in critical care.

- Stable patients should eventually be managed on Gastroenterology ward (Aconbury 4)
- If a patient is suitable for ward transfer, but has not undergone OGD, patients can be transferred provided that: PTWR has taken place, there is a clear plan in place regarding the patient's OGD and NBM status

	Worcestershire Royal Hospital	Alexandra Hospital Redditch
Low risk patients: <ul style="list-style-type: none"> GBS 0-1 	<ul style="list-style-type: none"> Consider early discharge after observation Ensure PPI is prescribed Consider urgent outpatient OGD with appropriate safety netting – submit completed OGD request form to endoscopy booking office 	
Medium risk patients: <ul style="list-style-type: none"> GBS 2-11 Haemodynamic stable following fluid/ blood resuscitation No history of varices or suspected liver cirrhosis 	Mon-Fri (08:00-17:00) <ul style="list-style-type: none"> Submit completed OGD request form to nurse in charge in endoscopy unit 	Mon-Fri (08:00-17:00) <ul style="list-style-type: none"> Submit completed OGD request form to nurse in charge in endoscopy unit if OGD can be done on the same day If no lists or OGD cannot be done on the same day – contact WRH endoscopy unit on x39490 or x30279 for further advice
	Fri 17:00 to Mon 09:00 and Bank holidays <ul style="list-style-type: none"> Contact on call Gastroenterologist via switchboard (must be ST3+ between 23:00-08:00 if urgent endoscopy is needed between these hours – see below) 	
High risk patients: <ul style="list-style-type: none"> Persistent haemodynamic instability despite fluid/blood resuscitation Clinical deterioration following fluid/ blood resuscitation 	<ul style="list-style-type: none"> Contact on call Gastroenterologist via switchboard (must be ST3 or above between 23:00-08:00) Consider early critical care involvement Activate major haemorrhage protocol if appropriate 	

5. Post OGD management

The OGD report should be reviewed by the medical and nursing team as the endoscopist usually provides care instructions and further management plans

- All patients with Forrest 1 or 2 lesion (see table below) should have a clear re-bleeding plan documented on the OGD report
- Surgical SpR should also be informed for patients with Forrest 1 or 2a lesions post OGD, as these patients are at highest risk of rebleeding
- All patients on antithrombotic therapy should also have an antithrombotic plan

If these are unclear, seek clarification from the endoscopist who had performed the procedure or the on call Gastroenterologist

Forrest classification	Endoscopic appearance	Rebleeding risk
1. Active bleeding	a. Spurting haemorrhage b. Oozing haemorrhage	60-100% 50%
2. Signs of recent bleeding	a. Non-bleeding visible vessel b. Adherent clot on lesion c. Haematin covered flat spot	40-50% 20-30% 7-10%
3. No signs of recent bleeding	Clean base ulcer	3-5%

1.4 Non-variceal bleed and haemostasis following endotherapy

- Start on intravenous omeprazole infusion – give omeprazole 80mg IV stat, then infuse at 8mg/hr for 72 hours (unlicensed use).
- Should have ongoing management in an acute/specialist area (Aconbury 4, ITU, MAU, MSSU) unless other competing healthcare needs
- Monitor Hb and transfuse if needed (see section 4)
- Check stool H *pylori* antigen (if CLO test not done during endoscopy)
- **Following definitive endotherapy – restart aspirin asap in patient with cardiac history as they are at increased cardiovascular risk post AUGIB**
 - Definitive endotherapy = adrenaline injection + another modality (mechanical, thermal etc)
 - If only adrenaline applied and/or haemospray use – do not restart aspirin unless directed by the endoscopist
- Do not restart other antiplatelets/ anticoagulation immediately – usually between 48 hours to 7 days post endoscopy depending on the lesion identified
 - In patients with recent PCI (<12 months) or metallic heart valve – discussed with endoscopist and on call cardiologist for further advice

5.1.1 Variceal bleed and haemostasis following endotherapy

- Continue with intravenous terlipressin 2mg QDS for 3 days
- Continue with intravenous antibiotics for 3 days
- Should have ongoing management in a specialist area (Aconbury 4 or ITU) unless other competing healthcare needs
- Monitor Hb and transfuse if needed (see section 4)

5.1.2 ReSPECT form

AUGIB patients have a relatively high mortality risk, particular if developed during inpatient stay – consider completing a RESPECT form at the earliest opportunity to guide escalation plan and treatment limitation.

6. Re-bleeding management

Recurrent bleeding is defined as bleeding following initial successful endoscopic haemostasis:

- Recurrent hematemesis or bloody nasogastric aspirate after index OGD
- Recurrent tachycardia or hypotension after achieving hemodynamic stability
- Melaena and/or haematochezia following normalisation of stool colour
- Reduction in haemoglobin $\geq 20\text{g/L}$ after a stable haemoglobin value has been attained

The initial management for rebleeding is the same as initial AUGIB presentation (refer to section 3). Usually repeating OGD within 48 hours of index procedure is futile and other management options considered.

1.5 Non-variceal bleed

Consider urgent interventional radiology for embolisation as first line rebleed management and/ or involve the surgical on call team

Scenario	Action
Unable to achieve haemostasis at index OGD	Refer to IR (Mon – Fri 09:00-17:00) or surgical on call team
Suboptimal endotherapy (i.e. only adrenaline injected or haemospray used) and rebleed <48 hours	
Haemostasis post endotherapy but rebleed <48 hrs	
Haemostasis post endotherapy but rebleed >48 hrs	Refer to the index OGD report, if clearly states repeat endoscopy is futile then refer to IR or surgical on call team as above
No active bleeding but overlying clot at index OGD	Consider repeat OGD in 24 hours

Interventional radiology – liaise with IR team, can be found in IR suite, X-ray level 2. Note this currently an in-hour service only (Mon – Fri 09:00-17:00). If out of hours, to contact QEH IR on call or surgical on call team at WRH.

Surgical on call team – SpR (bleep via switch), consultant (mobile via switch)

1.5.1 Variceal bleed

- **Contact the on call endoscopist to discuss if repeat OGD would be appropriate**
- **If repeat OGD not appropriate, consider Sengstaken tube as temporary measure and contact liver unit for transjugular intrahepatic portosystemic shunts system (TIPSS)**

Monitoring

Page/ Section of Key Document	Key control:	Checks to be carried out to confirm compliance with the policy:	How often the check will be carried out:	Responsible for carrying out the check:	Results of check reported to: (Responsible for also ensuring actions are developed to address any areas of non-compliance)	Frequency of reporting:
Adherence to this guideline will be monitored as part of the existing Endoscopy audit / JAG governance that is already in place and carried out routinely.						

References

1. Button, L.A., et al., *Hospitalized incidence and case fatality for upper gastrointestinal bleeding from 1999 to 2007: a record linkage study*. Aliment Pharmacol Ther, 2011. **33**(1): p. 64-76.
2. Hearnshaw, S.A., et al., *Use of endoscopy for management of acute upper gastrointestinal bleeding in the UK: results of a nationwide audit*. Gut, 2010. **59**(8): p. 1022-9.
3. Rockall, T.A., et al., *Risk assessment after acute upper gastrointestinal haemorrhage*. Gut, 1996. **38**(3): p. 316-21.
4. Blatchford, O., W.R. Murray, and M. Blatchford, *A risk score to predict need for treatment for upper-gastrointestinal haemorrhage*. Lancet, 2000. **356**(9238): p. 1318-21.
5. NCEPOD. *Time to get control? A review of the care received by patients who had a severe gastrointestinal haemorrhage*, 2015. Available: <http://www.ncepod.org.uk/2015report1/downloads/TimeToGetControlFullReport.pdf>
6. Siau, K., et al., *British Society of Gastroenterology (BSG)-led multisociety consensus care bundle for the early clinical management of acute upper gastrointestinal bleeding*. Frontline Gastroenterol, 2020. **11**(4): p. 311-323.
7. Baskett, P.J., *ABC of major trauma. Management of hypovolaemic shock*. BMJ, 1990. **300**(6737): p. 1453-7.
8. Villanueva, C., et al., *Transfusion strategies for acute upper gastrointestinal bleeding*. N Engl J Med, 2013. **368**(1): p. 11-21.
9. Collaborators, H.-I.T., *Effects of a high-dose 24-h infusion of tranexamic acid on death and thromboembolic events in patients with acute gastrointestinal bleeding (HALT-IT): an international randomised, double-blind, placebo-controlled trial*. Lancet, 2020. **395**(10241): p. 1927-1936.
10. NICE. *Acute upper gastrointestinal bleeding in over 16s: management*, 2012. Available: <https://www.nice.org.uk/guidance/cg141> [Accessed cited 18th July 2021].

Contribution List

This key document has been circulated to the following individuals for consultation;

Designation
Ian Gee, Consultant Gastroenterologist/ Clinical Service Lead
Graham Baker, Consultant Gastroenterologist
James Rees, Consultant Gastroenterologist
Ishfaq Ahmad, Consultant Gastroenterologist
Nick Hudson, Consultant Gastroenterologist
Amul Elagib, Consultant Gastroenterologist
Mark Maddock, Consultant Interventional Radiologist/ Clinical Service Lead
James Heron, Consultant Interventional Radiologist
Santhosh Vijay, Consultant Interventional Radiologist
Rahul Chivate, Consultant Interventional Radiologist
John Robinson, Consultant Surgeon/ Clinical Service Lead
Ant Perry, Consultant Surgeon
Martin Wadley, Consultant Surgeon
Mohamed Saad, Consultant Surgeon
Moustafa Mourad, Consultant Surgeon
Iraklis Kagkouras, Consultant Surgeon
Richard Lovegrove, Consultant Surgeon
Pam Sivathondan, Consultant Surgeon
Amit Patel, Consultant Surgeon
Steve Pandey, Consultant Surgeon
Bala Reddy, Consultant Surgeon
Deb Nicol, Consultant Surgeon
Miquel Zilvetti, Consultant Surgeon
Ed Mitchell, Consultant in Critical Care/ Clinical Director
James Risley, Consultant in Emergency Medicine/ Associate Divisional Director

This key document has been circulated to the chair(s) of the following committee's / groups for comments;

Committee
Gastroenterology Directorate
Surgical Division
SCSD Division
Specialty Medicine Divisional Management Board
Medicine Safety Committee

Appendix A: Acute upper gastrointestinal bleeding bundle


UK Acute Upper GI Bleeding Bundle

(to be performed within 24h)
Patient Details / Label
Name:
D.O.B.:
Hospital No.:
Date:
RECOGNITION
If reported:

Haematemesis, melaena or coffee ground vomiting

RESUSCITATION
Trigger bundle and record if performed
Y/ N/ NA

Perform NEWS as indicated

Commence IV crystalloid

Transfuse if Hb <70g/L, aim for 70-100g/L

**RISK
ASSESSMENT**

Calculate Glasgow-Blatchford Score (GBS): enter value →

- Consider discharge if GBS 0 or 1

**R_x
(Treatment)**

If suspected cirrhosis/variceal bleed, give terlipressin 2mg QDS and antibiotics as per local protocol

Continue aspirin

Suspend all other antithrombotics

REFER

Referral to ensure that endoscopy is performed within 24h of presentation

Refer to GI specialist if varices or requiring therapeutic endoscopy

REVIEW

Review endoscopy report

PPI if high risk ulcer post-endoscopy

Post-haemostasis antithrombotic plan

Haemodynamic instability? Think Major Haemorrhage Protocol +/- critical care review

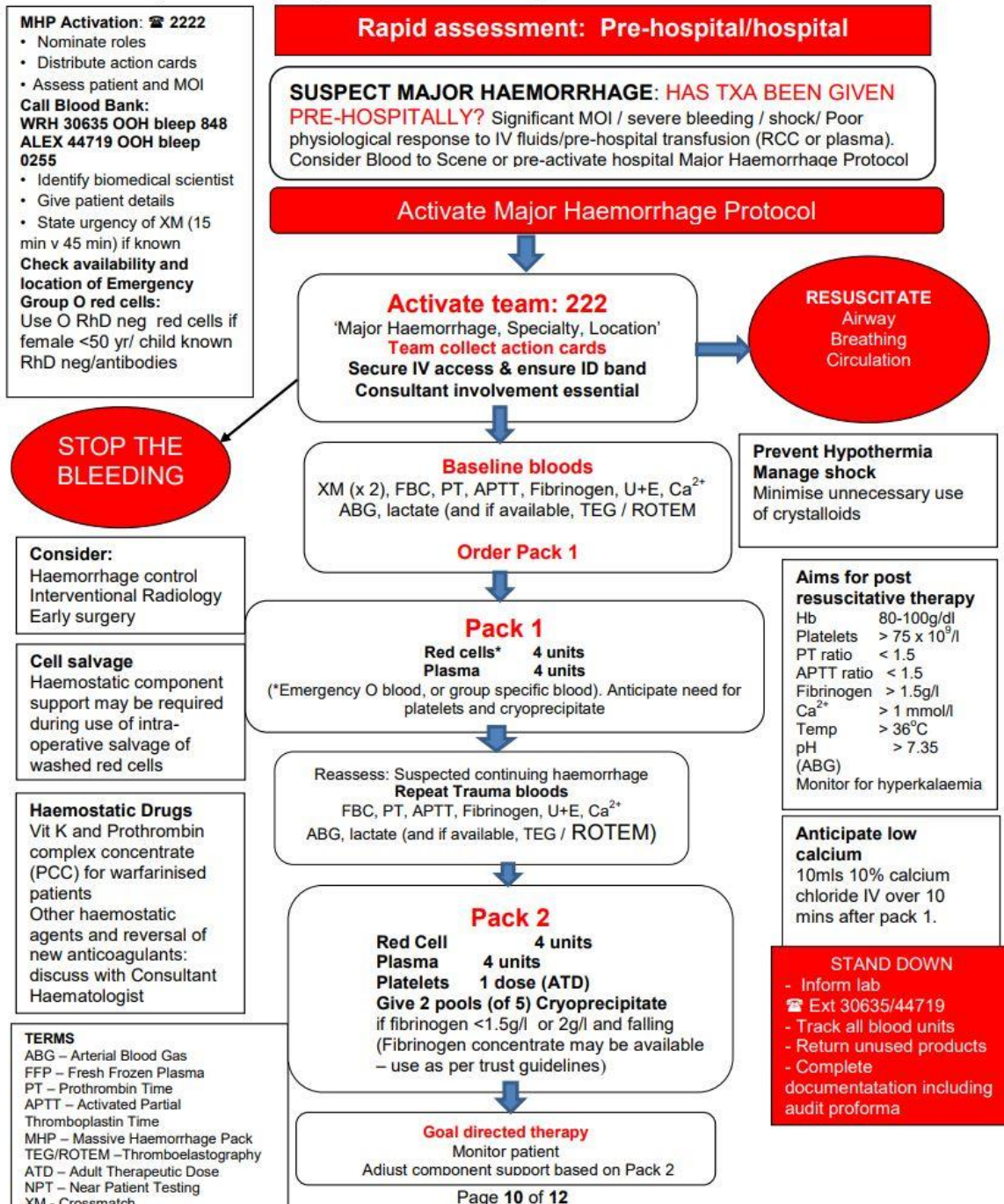
Appendix B: Major haemorrhage protocol

Blood Transfusion Pathway WAHT-KD-001



**Worcestershire
Acute Hospitals**
NHS Trust

Adult Major Haemorrhage in Trauma Management Flowchart



Key documents are not designed to be printed, but to be used on-line. This is to ensure that the correct and most up-to-date version is being used. If, in exceptional circumstances, you need to print a copy, please note that the information will only be valid for 24 hours and should be read in conjunction with the key document supporting information page/and or Key Documents intranet page, which will provide approval and review information

Affix Patient Label here or record

NAME:

NHS NO:

--	--	--	--	--	--	--	--	--	--

HOSP NO:

--	--	--	--	--	--	--	--	--	--

D.O.B:

--	--	--

 /

--	--	--

 /

--	--	--	--	--	--

 MALE ☐ FEMALE ☐

g) Transfuse blood if Hb <7.0g/L or massive bleeding (aim for Hb >8g/L). Consider Major Haemorrhage policy (WHAT-HAE-008) if appropriate	Y	N	NA	Initials:	
h) Early endoscopy after resuscitation (ideally within 12 hours)	Y	N			Time:
6. Encephalopathy	N/A <input type="checkbox"/>				
a) Look for precipitant (GI bleed, constipation, dehydration, sepsis etc.)	Y	N			
b) Encephalopathy – lactulose 20-30ml QDS or phosphate enema (aiming for 2 soft stools/day)	Y	N		Time:	
c) If in clinical doubt in a confused patient request CT head to exclude subdural haematoma	Y	N	N/A		
7. Other					
a) Venous thromboembolism prophylaxis – prescribe prophylactic LMWH (patients with liver disease are at a high risk of thromboembolism even with a prolonged prothrombin time; withhold if patient is actively bleeding or platelets <50)	Y	N	NA	Time:	
b) GI/Liver review at earliest opportunity (ideally within 24 hrs)	<input type="checkbox"/>				

Signature: Printed Name:

Designation: Date:

Decompensated Cirrhosis Care Bundle - First 24 Hours

The recent NCEPOD report 2013 on alcohol related liver disease highlighted that the management of some patients admitted with decompensated cirrhosis in the UK was suboptimal. Admission with decompensated cirrhosis is a common medical presentation and carries a high mortality (10-20% in hospital mortality). Early intervention with evidence-based treatments for patients with the complications of cirrhosis can save lives. This checklist aims to provide a guide to help ensure that the necessary early investigations are completed in a timely manner and appropriate treatments are given at the earliest opportunity.

o Decompensated cirrhosis is defined as a patient with cirrhosis who presents with an acute deterioration in liver function that can manifest with the following symptoms:

- o Jaundice
- o Increasing ascites
- o Hepatic encephalopathy
- o Renal impairment
- o GI bleeding
- o Signs of sepsis/hypovolaemia

o Frequently there is a precipitant that leads to the decompensation of cirrhosis. Common causes are:

- o GI bleeding (variceal and non-variceal)
- o Infection/sepsis (spontaneous bacterial peritonitis, urine, chest, cholangitis etc)
- o Alcoholic hepatitis
- o Acute portal vein thrombosis
- o Development of hepatocellular carcinoma
- o Drugs (Alcohol, opiates, NSAIDs etc)
- o Ischaemic liver injury (sepsis or hypotension)
- o Dehydration
- o Constipation

When assessing patients who present with decompensated cirrhosis please look for the precipitating causes and treat accordingly. The checklist shown overleaf gives a guide on the necessary investigations and early management of these patients admitted with decompensated cirrhosis and should be completed on all patients who present with this condition. The checklist is designed to optimize a patient's management in the first 24 hours when specialist liver/gastro input might not be available. Please arrange for a review of the patient by the gastro/liver team at the earliest opportunity. Escalation of care to higher level should be considered in patients not responding to treatment when reviewed after 6 hours, particularly in those with first presentation and those with good underlying performance status prior to the recent illness.



Supporting Document 1 - Equality Impact Assessment Tool
Herefordshire & Worcestershire STP - Equality Impact Assessment (EIA) Form
 Please read EIA guidelines when completing this form
Section 1 - Name of Organisation (please tick)

Herefordshire & Worcestershire STP		Herefordshire Council		Herefordshire CCG	
Worcestershire Acute Hospitals NHS Trust	✓	Worcestershire County Council		Worcestershire CCGs	
Worcestershire Health and Care NHS Trust		Wye Valley NHS Trust		Other (please state)	

Name of Lead for Activity	Dr Danny Cheung
----------------------------------	-----------------

Details of individuals completing this assessment			
	Name	Job title	e-mail contact
	Specialty Medicine Governance Team		wah-tr.medicineregovernance@nhs.net
Date assessment completed	29/12/2021		

Section 2

Activity being assessed (e.g. policy/procedure, document, service redesign, policy, strategy etc.)	Title: Acute Upper Gastrointestinal Bleed (AUGIB) Guideline			
What is the aim, purpose and/or intended outcomes of this Activity?	To provide consensus guidance for the early clinical management of acute upper gastrointestinal bleeding.			
Who will be affected by the development & implementation of this activity?	<input checked="" type="checkbox"/> Service User <input checked="" type="checkbox"/> Patient <input checked="" type="checkbox"/> Carers <input type="checkbox"/> Visitors	<input checked="" type="checkbox"/> Staff <input type="checkbox"/> Communities <input type="checkbox"/> Other _____		
Is this:	<input checked="" type="checkbox"/> Review of an existing activity (new guideline to cover existing activity) <input type="checkbox"/> New activity <input type="checkbox"/> Planning to withdraw or reduce a service, activity or presence?			

What information and evidence have you reviewed to help inform this assessment? (Please name sources, eg demographic information for patients / services / staff groups affected, complaints etc.)	National guidance and studies. See References – page 14.
Summary of engagement or consultation undertaken (e.g. who and how have you engaged with, or why do you believe this is not required)	Numerous staff from a variety of departments have been involved in creating this guideline. See Contribution List – page 15.
Summary of relevant findings	

Section 3

Please consider the potential impact of this activity (during development & implementation) on each of the equality groups outlined below. **Please tick one or more impact box below for each Equality Group and explain your rationale.** Please note it is possible for the potential impact to be both positive and negative within the same equality group and this should be recorded. Remember to consider the impact on e.g. staff, public, patients, carers etc. in these equality groups.

Equality Group	Potential <u>positive</u> impact	Potential <u>neutral</u> impact	Potential <u>negative</u> impact	Please explain your reasons for any potential positive, neutral or negative impact identified
Age	✓			Targeted risk assessment of patients based on sex for improved ongoing management of AUGIB (pages 8-9)
Disability		✓		
Gender Reassignment		✓		
Marriage & Civil Partnerships		✓		
Pregnancy & Maternity				
Race including Traveling Communities		✓		
Religion & Belief		✓		
Sex	✓			Targeted risk assessment of patients based on sex for improved ongoing management of AUGIB (pages 8-9)
Sexual Orientation		✓		
Other Vulnerable and Disadvantaged Groups (e.g. carers; care leavers; homeless; Social/Economic deprivation, travelling communities etc.)		✓		
Health Inequalities (any preventable, unfair & unjust differences in health status between groups, populations or individuals that arise from the unequal distribution of social, environmental & economic conditions within societies)		✓		

Section 4

What actions will you take to mitigate any potential negative impacts?	Risk identified	Actions required to reduce / eliminate negative impact	Who will lead on the action?	Timeframe
How will you monitor these actions?	N/A			
When will you review this EIA? (e.g in a service redesign, this EIA should be revisited regularly throughout the design & implementation)	N/A			

Section 5 - Please read and agree to the following Equality Statement

1. Equality Statement

1.1. All public bodies have a statutory duty under the Equality Act 2010 to set out arrangements to assess and consult on how their policies and functions impact on the 9 protected characteristics: Age; Disability; Gender Reassignment; Marriage & Civil Partnership; Pregnancy & Maternity; Race; Religion & Belief; Sex; Sexual Orientation

1.2. Our Organisations will challenge discrimination, promote equality, respect human rights, and aims to design and implement services, policies and measures that meet the diverse needs of our service, and population, ensuring that none are placed at a disadvantage over others.

1.3. All staff are expected to deliver services and provide services and care in a manner which respects the individuality of service users, patients, carer's etc, and as such treat them and members of the workforce respectfully, paying due regard to the 9 protected characteristics.

Signature of person completing EIA	Completed by Specialty Medicine Governance on behalf of the document author
Date signed	29/12/2021
Comments:	
Signature of person the Leader Person for this activity	
Date signed	
Comments:	

Supporting Document 2 – Financial Impact Assessment

To be completed by the key document author and attached to key document when submitted to the appropriate committee for consideration and approval.

	Title of document:	Yes/No
1.	Does the implementation of this document require any additional Capital resources	No
2.	Does the implementation of this document require additional revenue	No
3.	Does the implementation of this document require additional manpower	No
4.	Does the implementation of this document release any manpower costs through a change in practice	No
5.	Are there additional staff training costs associated with implementing this document which cannot be delivered through current training programmes or allocated training times for staff	No
	Other comments:	

If the response to any of the above is yes, please complete a business case and which is signed by your Finance Manager and Directorate Manager for consideration by the Accountable Director before progressing to the relevant committee for approval.