Gastrointestinal (GI) Bleeding



Rapid Clinical Updates

Non-variceal bleeding

Context: Objectively assessing the acuity and severity of GI bleeding can be difficult.

Current: Risk scores can help identify low risk patients for discharge home directly from the ED. For upper

GI bleeding, those with Glasgow-Blatchford score of 0-1 are low risk. For lower GI bleeding, those

with Oakland score <8 are low risk.²

Cutting edge: For patient undergoing endoscopy, consider administering a prokinetic (IV erythromycin) 1 hour

prior to endoscopy to improve visualization and therapeutic interventions.³ Doing so reliably may be

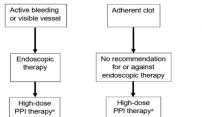
Current:

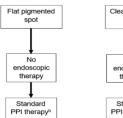
Context:

a target for process improvement interventions.

| Outcome | No. of studies (no. of subjects) | Erythromycin vs no erythromycin/placebo effect size (95% CI) |
|-------------------------------|----------------------------------|---|
| Further bleeding | 1 study (N = 29) (19) | RR = 0.54 (0.05-5.28) |
| Mortality | 3 studies (N = 278) (20-22) | RR = 0.81 (0.41-1.60) |
| Second-look endoscopy | 8 studies (N = 598) (18) | OR = 0.51 (0.34-0.77) |
| Hospital days | 5 studies (N = 375) (18) | Mean difference $= -1.75 (-2.43 \text{ to } -1.06)$ |
| Units of red cells transfused | 6 studies (N = 544) (18) | Mean difference = $-1.06 (-2.24 \text{ to } 0.13)^3$ |

Acid Suppression





No endoscopic therapy

Standard PPI therapy^b

Proton-pump-inhibitor (PPI) therapy are

helpful for mucosal healing.

PPIs are often prescribed with excessive

intensity and for excessive duration.

Cutting Edge: Use endoscopic findings to guide

intensity and duration of PPI therapy.³

Variceal bleeding

Context: Patients with significant portal hypertension are at risk for

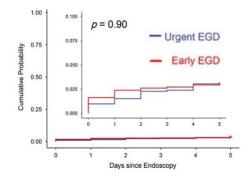
massive hemorrhage through esophageal or gastric varices.

Current: Administer blood, antibiotics, and vasoactive agents (ie,

octreotide) as soon as possible.

Cutting edge: Optimal timing is unclear. Early is probably better if critically

ill, otherwise may be acceptable to wait up to 24 hours.⁴



Direct Oral Anticoagulants (DOACs) and GI Bleeding

Context: Routing coagulation testing is not helpful for patients on DOACs.

Current: Direct reversal agents are now available, including idarucinzumab (a mono-clonal Ab fragment that

reverses direct thrombin inhibitors) and andexanet (a factor Xa décor that reverses Xa inhibitors).

Cutting Edge: These medications are wildly expensive (>\$5,000/vial for idarucizumab, >\$30,000/treatment for

andexanet) and are best reserved for major, life-trheatening bleeding such as shock, decrease in Hgb

>5, or requiring >5 units of PRBC.

References:

- 1. Blatchford et al. A risk score to predict need for treatment for upper-gastrointestinal haemorrhage. Lancet. 2000;356(9238):1318. PMID: 11073021
- 2. Oakland et al. Derivation and validation of a novel risk score for safe discharge after acute lower gastrointestinal bleeding. Lancet Gastroenterol Hepatol. 2017;2(9):635. PMID: 28651935
- Laine et al. ACG Clinical Guideline: Upper Gastrointestinal and Ulcer Bleeding. Am J Gastroenterol. 2021;116(5):899. PMID: 33929377
- 4. Zhang et al. Timing of endoscopy for acute variceal bleeding in patients with cirrhosis (CHESS1905). Hepatol Commun. 2023;7(5):e0152. PMID: 37141513

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