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12-11-2019

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Recommended Citation

Dany V, et al. Pantoprazole continuous infusion versus intermittent intravenous (IV) bolus in non-variceal upper gastrointestinal (GI) bleed prior to esophagogastroduodenoscopy (EGD). Poster presented at: ASHP Midyear Clinical Meeting & Exhibition; December 8-12, 2019; Las Vegas, NV.

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Pantoprazole continuous infusion versus intermittent bolus for gastrointestinal bleed prior to esophagogastroduodenoscopy (EGD)

Vy Dang, PharmD; Mickayla Clark, PharmD, BCPS; Pinak Ashokkumar Shah, MD; Kartika Shetty, MD; Birjees Ahmed, MD; James Wang, MD; Scott Anderson, MD

Introduction

- Upper gastrointestinal (GI) bleeding is a complication of peptic ulcer disease (PUD) and is associated with morbidity and mortality
- Practice guidelines recommend the use of a continuous infusion PPI to prevent rebleeding in patients with non-variceal upper GI bleeds with
 - Active bleeding
 - Nonbleeding visible vessels
 - Adherent clots
- PPIs elevate gastric pH levels and aid in stabilization of blood clots
- > Studies examining continuous infusion versus intermittent bolus PPI post EGD have demonstrated that intermittent bolus administration is comparable to continuous infusion
- To our knowledge no studies have been performed to evaluate the outcomes of continuous infusion versus intermittent bolus PPI prior to EGD

Purpose

The objective of this study is to evaluate the clinical outcomes of continuous infusion PPI versus intermittent bolus PPI prior to EGD

This research was supported in whole or in part by HCA and an HCA affiliated entity. The views expressed in this publication represent those of the author(s) and do not necessarily represent the official views of HCA or any of its affiliated entities.

Methods

Study Design

2019

Study Population

- bleed who underwent EGD during the same their course of hospitalization will be identified
- > Patients with colonic bleed, lower GI bleed, and endoscopy will be excluded

Study Groups

- 1.Intermittent bolus
- 2.Continuous infusion

Statistical Analysis

Based on existing studies, an estimated 1436 0.74; 2-sided 95% CI, 0.52-1.06)

Retrospective chart review of patients with nonvariceal upper GI bleeds admitted to a community teaching hospital between January 2013 to July

Patients diagnosed with a non-variceal upper GI admission and received IV pantoprazole as either intermittent bolus or continuous infusion during

who have esophageal or gastric varices on upper

Pantoprazole 40mg IV twice daily

Pantoprazole 80 mg IV loading dose followed by 8 mg/hr IV continuous infusion

subjects per group are needed to achieve 80% statistical power and the type-I error of 0.05 (RR,

bleeding

> No results available at this time, as data collection is in progress. Planned completion in Spring of 2020.

> No conclusion available at this time, as data collection is in progress. Planned completion in Spring of 2020.

- Aliment Pharmacol Ther. 2003;17:211-216.
- 2007;77:677-681.
- 2012;107(3):345-60
- group. Ann Intern Med. 2019



Study Outcomes

> Primary outcome of this study is the rate of re-

- Secondary outcomes will include
 - Findings and intervention during EGD
 - Need for blood transfusion
 - In-hospital mortality
 - Readmission within 30 days with a
 - principle diagnosis of upper GI bleed

Results

Conclusion

References

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Disclosure Statement: Authors have nothing to disclose



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