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Introduction

GI bleeding in patients with cirrhosis, particularly those with gastroesophageal variceal bleeding have a high rate of morbidity and mortality.

Current guidelines recommend endoscopy within 24 hours for GI bleeding. However, endoscopy for GI bleeding in patients with alcohol associated cirrhosis is frequently delayed due to withdrawal concerns.

We studied the timing of endoscopy for GI bleeding in alcoholics with liver disease, and its impact on outcomes.

Methods and Materials

Population: Patients aged 18-90 with a diagnosis of cirrhosis and GI bleeding at Northwell Health tertiary medical centers from 10/2019 to 2/2022 were selected for analysis.

Data regarding time from admission to EGD, as well as other parameters including age, gender, history of alcohol use, MELD-Na score, length of hospital stay, benzodiazepine requirements, admission to the ICU, and mortality were assessed through chart review.

Timing of endoscopy was categorized as **<u>early</u>** (<24 hours) or late (>24 hours) from admission time.

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The Timing of Esophagogastroduodenoscopy (EGD) and its Impact on Patients with Cirrhosis and Upper GI Bleeding

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	Odds Ratio	P-value	Confidence Interval
EGD within 24 hours vs Length of Stay	0.9152	.0019	0.8653-0.9679
		0 1000	
EGD within 24 hours vs PRBC transfused	0.9613	0.4806	0.8615-1.0727
EGD within 24 hours vs MELD-	0.9843	0.4661	0.9434-1.0270
Na			
EGD within 24 hours vs	0.9876	0.8516	0.8664-1.1258
admission Hgb			
C	gression of early EG	Ŭ	y, PRBC
transfused, MELD-	Na score, and admi	ssion hemoglobin	
	Relative Risk	P-value	Confidence
			Interval
EGD within 24	0.7081	0.4480	0.2902-1.7273
hours vs	0.7001	0.4400	0.2302-1.7273

	Odds Ratio	P-value	Confidence Interval
EGD within 24 hours vs Length of Stay	0.9152	.0019	0.8653-0.9679
EGD within 24 hours vs PRBC transfused	0.9613	0.4806	0.8615-1.0727
EGD within 24 hours vs MELD- Na	0.9843	0.4661	0.9434-1.0270
EGD within 24 hours vs admission Hgb	0.9876	0.8516	0.8664-1.1258
Table 1: Logistic reg transfused, MELD-N		U	y, PRBC
	Relative Risk	P-value	Confidence Interval
EGD within 24 hours vs mortality	0.7081	0.4480	0.2902-1.7273

Table 2: Relative risk of early EGD and mortality of cohort



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Conclusions

Since early EGD is associated with significantly higher rates of ICU admission, patient optimization and treatment of withdrawal symptoms can potentially reduce ICU admission even if EGD is delayed past 24 hours

In patients with alcohol withdrawal and active GI bleeding, early EGD compared to late EGD has a favorable but insignificant effect on patient's mortality and length of stay in the hospital. Late EGD was not associated with adverse outcomes.

Further studies are warranted to better elucidate the optimal timing for this subset of alcohol associated cirrhosis with GI bleeding.