Outcomes in Non-Variceal Upper Gastrointestinal Bleeding with Use of the Endoscopic Over-the-Scope-Clip Device Deployed by General Gastroenterologists and Trainees: Experience from a Large Academic Medical Center NYU Langone Saif Laljee MD¹, Sue Dong MD¹, Kimberly Cheng MD², Philip Burkhard BS³, Melissa Latorre MD, MS² Health ¹NYU Langone Medical Center, Department of Medicine; ²NYU Langone Medical Center, Division of Gastroenterology and Hepatology; ³NYU Langone Medical Center

Introduction

- Non-variceal upper gastrointestinal bleeding (NVUGIB) is a common cause of morbidity and mortality among inpatients, and can be associated with up to a 30% incidence of rebleeding.
- The over-the-scope-clip (OTSC) is an effective and safe tool to achieve hemostasis in NVUGIB, however, remains underutilized in the general gastroenterology (GI) practice.
- Here we evaluate outcomes in hemostasis with use of the OTSC by general gastroenterologists and trainees.

Methods

- Retrospective analysis of patients admitted at a large academic medical center for NVUGIB for whom the OTSC was used to achieve hemostasis.
- Procedures were performed between July 2019 and May 2022 by general gastroenterologist and trainees.
- Primary outcome was 30-day rebleeding rate, defined as clinical evidence of bleeding plus need for repeat endoscopy or other therapeutic intervention at the site of initial treatment.

- OTSC for hemostasis in management of NVUGIB.
- Of patients undergoing OTSC use for primary vs (n = 5) and 10% (n = 2), respectively.
- (71.4% vs 13.3%, p < 0.05).

Table 1: Characteristics of 52 patients with use of the OTSC for hemostasis by general gastroenterologists and trainees Rebleed Hemostasis tients **P**-N=45 (86.5%) N=7 (13.5%) = 52 value 72.4 70.4 79 NS NS 1(14.3%) 17 (37.8%) 34.6%) 65.4%) 28 (62.2%) 6 (85.7%) NS 25 (55.6%) 3 (42.9%) 53.9%) 1 (14.3%) 7 (15.6%) L5.4%) 8 (17.8%) 1 (14.3%) .7.3%) 2 (28.6%) 4 (8.9%) .1.5%) 1.9%) 1 (2.2%) 0 NS 30.8%) 13 (28.9%) 3 (42.9%) 3 (42.9%) 24 (53.3%) 51.9%) .7.3%) 9 (20%) 0 NS 9.4 9.1 9.3 6.7 6.1 6.6 256 259 237

		Pat N :	
A	Age, mean (years)		
Gender			
	Female	18 (3	
	Male	34 (6	
R	ace		
	White	28 (5	
	Black	8 (1	
	Asian	9 (1	
	Hispanic	6 (1	
	Other	1 (1	
Medications (prior to admission)			
	Anticoagulation use	16 (3	
	Antiplatelet use	27 (5	
	PPI use	9 (1	
Labs (Mean Values)			
	Admission Hemoglobin (g/dL)	g	
	Hemoglobin Nadir (g/dL)	e	
	Platelets	2	

Results

We identified 52 patients who underwent use of the We observed a 30-day rebleeding rate of 13.5% (n=7) secondary hemostasis, the rebleeding rate was 15.6%

Patients who rebleed had higher readmission rates

Table 2: Endoscopic findings and outcomes with use of the OTSC						
	Patients	Hemostasis	Rebleed	P-		
	N = 52	N=45 (86.5%)	N=7 (13.5%)	value		
Ulcer Location & Features				NS		
Stomach	13 (25.0%)	13 (28.9%)	0			
Duodenum	36 (69.2%)	29 (64.4%)	7 (100%)			
GJ anastomosis	2 (3.9%)	2 (4.4%)	0			
GE junction	1 (1.9%)	1 (2.2%)	0			
Large Ulcer ≥ 10 mm	43 (82.7%)	37 (82.2%)	6 (85.7%)	NS		
Indication for Index EGD				NS		
Primary hemostasis	32 (61.5%)	27 (60.0%)	5 (71.4%)			
Secondary hemostasis/rebleeding	20 (38.5%)	18 (40.0%)	2 (28.6%)			
Forrest Classification of Ulcer				NS		
Forrest la	0 (0%)	0	0			
Forrest Ib	16 (30.7%)	12 (26.7%)	4 (57.1%)			
Forrest lla	25 (48.1%)	22 (48.9%)	3 (42.9%)			
Forrest IIb	8 (15.4%)	8 (17.8%)	0			
Forrest IIc	1 (1.9%)	1 (2.2%)	0			
Forrest III	2 (3.9%)	2 (4.4%)	0			
Outcomes						
Readmission (within 30 days of EGD)	11 (21.2%)	6 (13.3%)	5 (71.4%)	P<0.05		
Mean LOS, days	15.4	14.4	21.7	NS		

- standard treatment.

Conclusion

• The OTSC is a highly effective tool in management of NVUGIB, specifically in cases of rebleeding, severe hemorrhage, and large ulcers not amenable to

• The OTSC can safely and successfully be deployed by general gastroenterologists and trainees.

Education and competency in OTSC should be

encouraged in physicians who treat NVUGIB.