# Gastric Polyps: Examining Adherence to Polypectomy Guidelines and the Role of Demographic and Clinical Data in Endoscopic Management



NEW YORK MEDICAL COLLEGE

Makeda Dawkins MD<sup>1</sup>, Dafna Somogyi<sup>2</sup>, Jakob Saidman MD<sup>3</sup>, Christopher Nabors, MD, PhD<sup>1</sup>, Edward Lebovics, MD, FACP, FACG, AGAF, FAASLD<sup>3</sup> <sup>1</sup>Department of Medicine, Westchester Medical Center, Valhalla, NY <sup>2</sup>New York Medical College, Valhalla, NY <sup>3</sup>Department of Gastroenterology and Hepatobiliary Disease, Westchester Medical Center, Valhalla, NY <sup>3</sup>Department of Gastroenterology and Hepatobiliary Disease, Westchester Medical Center, Valhalla, NY <sup>4</sup>New York Medical College, Valhalla, NY <sup>4</sup>New York Medical Center, Valhalla, NY <sup>4</sup>New Yo

# INTRODUCTION

- Gastric polyps can be idiopathic or seen in the setting of genetic disorders, medication use, infection, cigarette use, or malignancy.
- Most gastric polyps excised (70-90%) are fundic gland polyps, with about 5-19% containing dysplastic or malignant components. Histology is key to diagnosis and management; thus, the American Society for Gastrointestinal Endoscopy (ASGE) recommends excision and biopsy as follows:
- Biopsy of all solitary gastric polyps or resection when possible.
- Polypectomy of all fundic gland polyps 1cm or larger, with biopsy or resection of the largest polyp taken in the setting of multiple polyps and representative specimens taken from others.

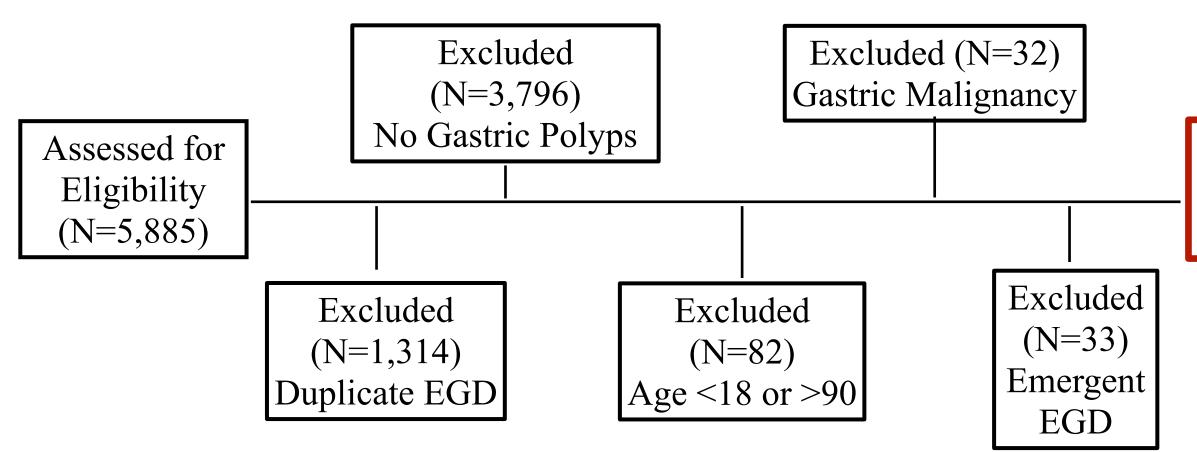
## AIMS

- To assess adherence to ASGE guidelines for the resection of gastric polyps during nonemergent EGD in patients 19 to 90 years old.
  - Primary Aim: To determine if at least 50% of all solitary gastric polyps visualized during non-emergent inpatient and outpatient EGDs were biopsied.
    - Hypothesis: Greater than 50% of all solitary gastric polyps were biopsied.
  - Secondary Aim: To determine if all fundic gland polyps greater than or equal to 1cm were biopsied.
    - Hypothesis: Greater than 50% of all fundic gland polyps greater than or equal to 1cm were biopsied.
  - Tertiary Aim: To identify demographic, clinical, and pharmacologic data influencing endoscopic management.

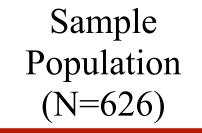
## METHODS

- In this retrospective descriptive study, *Cerner* electronic medical records and *gGastro GI* Software were queried for patients 18 to 90 years old who underwent non-emergent EGD between October 17th, 2018, and October 17th, 2021 at Westchester Medical Center.
- Data was extracted from EMRs of all patients meeting inclusion criteria and analyzed via SPSS for descriptive statistics. 626 subjects were included in the study.

### **Figure 1: Consort Diagram of Exclusion Criteria**



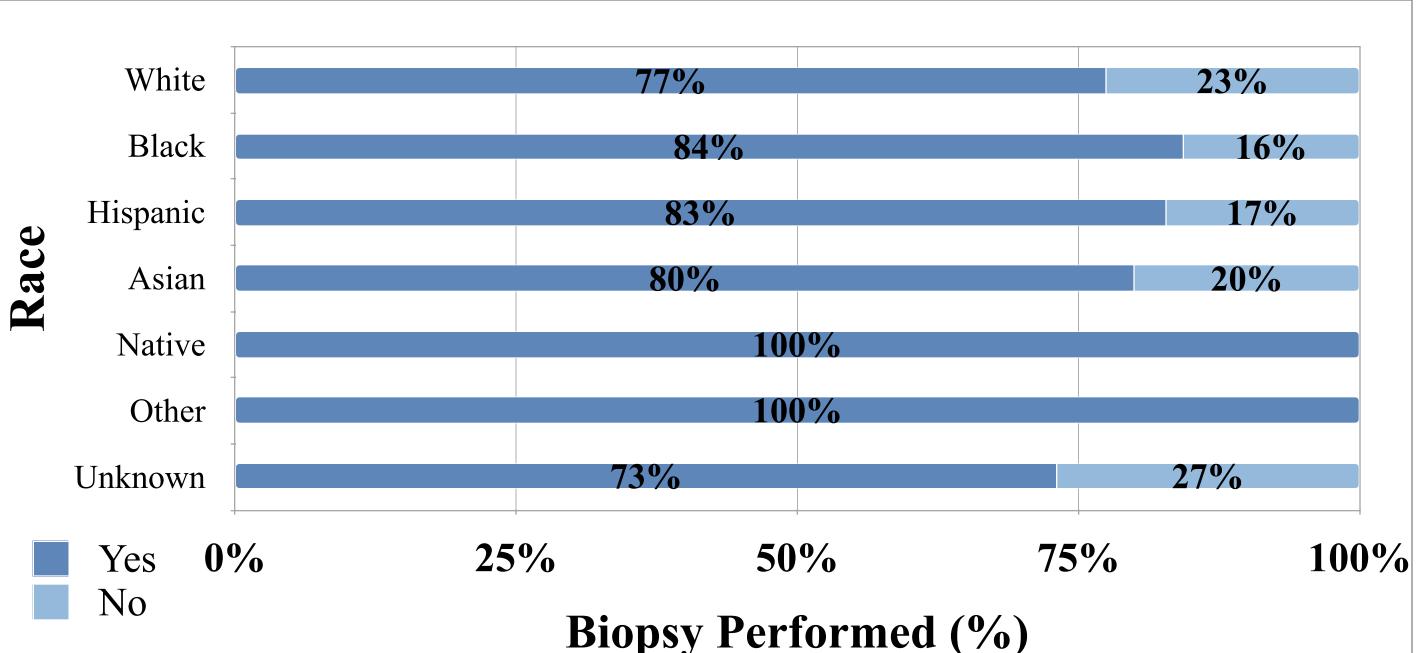
# RESULTS



### **Figure 2: Biopsy of Solitary Gastric Polyps**

		Count	Count N (%)
Was Biopsy	Yes	496	79.2%
Performed?	No	130	20.7%

### **Figure 3: Biopsy of Fundic Gland Polyps Greater than or Equal to** 1cm



### **Figure 4: Clinical and Pharmaceutical Influencing Endoscopic** Management

	Was Biopsy Performed?							
		Yes		No				
		Count	Column N (%)	Count	Column N (%)			
History of H. Pylori	Yes	36	97.4%	1	0.3%			
	No	450	78.3%	125	21.7%			
History of gastrointestinal polyps	Yes	124	80%	31	20%			
	No	361	79%	96	21%			
History of smoking	Yes	125	76.7%	38	23.3%			
	No	347	80.3%	85	19.7%			
History of alcohol use	Yes	133	73%	27%	37.4%			
	No	337	86.4%	18	4.6%			
Current proton pump inhibitor use	Yes	262	76.2%	81	23.6%			
	No	224	83.3%	45	16.7%			
Family history of gastric malignancy	Yes	26	96.3%	1	0.04%			
	No	387	80.5%	94	19.5%			
Family history of polyp disease	Yes	20	90.9%	2	0.09			
	No	407	80.4%	99	19.5%			

## **Figure 5: Demographic Data Influencing Endoscopic** Management

		Was Biopsy Performed?					
		Yes		No			
	-	Count	Count N	Count	Count N		
			(%)		(%)		
Sex	Men	161	72.2%	62	27.8%		
	Woman	334	81.7%	69	16.9%		

## CONCLUSIONS

- <u>Aim 1: Biopsy of Solitary Gastric Polyps</u>
  - 79.2% of all solitary gastric polyps visualized during nonaccordance with ASGE recommendations.
- <u>Aim 2: Biopsy of Fundic Gland Polyps Greater Than or Equal to 1cm</u>
- <u>Aim 3: Identify Demographic, Clinical and Pharmacological Data</u> Influencing Endoscopic Management
  - 1cm were biopsied regardless of race.
  - or have polypectomy preformed.

- conditions of the stomach. Gastrointest Endosc. 2015 Jul;82(1):1-8. PMID: 25935705.
- Aug;125(2):586-90. PMID: 12891560.
- Oct;9(10):640-51. PMID: 24764778.





emergent EGD in patients 18 to 90 years old were biopsied in

• 81 of 110 (73.6%) fundic polyps greater than or equal to 1cm visualized during non-emergent EGD in patients 18 to 90 years old were biopsied in accordance with ASGE recommendations.

• Greater than 50% of all solitary gastric polyps were biopsied regardless of sex, clinical and pharmacologic data and greater than 50% of all fundic gland polyps greater than or equal to

• Patients who underwent EGD for gastrointestinal bleeding or esophageal varices screening were less likely to undergo biopsy

## REFERENCES

1. ASGE Standards of Practice Committee, Evans JA, Chandrasekhara V, Chathadi KV, Decker GA, Early DS, Fisher DA, Foley K, Hwang JH, Jue TL, Lightdale JR, Pasha SF, Sharaf R, Shergill AK, Cash BD, DeWitt JM. The role of endoscopy in the management of premalignant and malignant

2. Fennerty, MB. Gastric intestinal metaplasia on routine endoscopic biopsy. Gastroenterology 2003

3. Islam RS, Patel NC, Lam-Himlin D, Nguyen CC. Gastric polyps: a review of clinical, endoscopic, and histopathologic features and management decisions. Gastroenterol Hepatol (N Y). 2013