

HEALTH SCIENCES

INTRODUCTION

- In response to the Covid-19 pandemic, many specialties were limited in screening practices and elective procedures due to national mandates.
- Within the field of gastroenterology, this led to a delay in colorectal cancer screening and diagnostic endoscopies.
- Our institution resumed screening and diagnostic endoscopies by conducting pre-procedure Covid testing. Patients were deferred if positive for Covid.

AIMS

- Primary aim: Investigate the impact of Covid-19 related delays for gastrointestinal diagnostic and screening processes
- Secondary aim: Identify factors associated with endoscopy completion after delay including patient demographics, type of procedure, and institution

METHODS

- Retrospective study evaluating outpatient endoscopic procedures delayed due to positive Covid-19 testing from March 2020-2022 at an academic center and affiliated community hospital.
- Patients underwent rapid Covid-19 PCR testing (Abbott ID Now, Chicago IL) prior to their scheduled endoscopy. If positive, the procedure was canceled and could not be rescheduled for 21 days. These procedures were identified with a Covid-19 cancelation code.
- Patient and procedural characteristics were identified through a manual chart review.
- Statistical analysis included t-testing, chi-square, and ANOVA.

Identifying Screening and Diagnostic Endoscopic Delays Due to Covid-19

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	Completed N=91 (46%)	Not Completed N=106 (54%)	p-value	Delayed Procedures, n (%)
Age				Total 197
Median	61	61	0.79	10lai 197
Range	19-84	18-85		Colonoscopy 125 (63
IQR 1-3	50-66	51-68		
				EGD + Colonoscopy 37 (19)
Gender, n (%)			0.43	
Female	59 (65)	63 (59)		EGD 35 (18)
Male	32 (35)	43 (41)		
				Rescheduled Procedures, n (
Race, n (%)			0.27	Rescheduled Flocedules, II (
White	64 (70)	78 (74)		
African American	13 (14)	11 (10)		Total 91 (46)
Asian	5 (5)	2 (2)		
Other	9 (10)	15 (14)		Colonoscopy 63
Ethnicity, n (%)			0.35	EGD + Colonoscopy 20
Hispanic	23 (25)	22 (21)		
Non-Hispanic	68 (75)	84 (79)		EGD 8

Endoscopy Indication								
Colonoscopy	N=122	EGD	N=35	EGD + Colonoscopy	N=36			
CRC Screen	94	UGI Symptoms	11	UGI + LGI Symptoms	13			
IBD	9	Dysphagia, Odynophagia	6	UGI Symptoms + CRC Screen	11			
Bleeding	8	Barrett's Esophagus	5	Bleeding	5			
LGI Symptoms	3	Esophagitis or Gastritis	4	IBD	2			
Abnormal FIT	2	H-Pylori, PUD, Cancer	4	Weight Loss	2			
Other	6	Other	5	Other	3			

Figure 3. Indication for delayed endoscopies.

	Total (N=91)	Academic Center (N=58)	Community Hospital (N=33)
Total	140 (65-320)	199 (68-294)	166 (54-186)
Colonoscopy	152 (70-334)	221 (69-346)	140 (52-135)
EGD + Colonoscopy	94 (61-238)	159 (57-203)	181 (65-146)
EGD	153 (21-245)	58 (47-251)	250 (78-386)

Figure 4. Median time to endoscopy completion in days (IQR 1-3).

RESULTS

(CRC = colorectal cancer; UGI = Upper GI; LGI = Lower GI)

RESULTS

197 patients were eligible for inclusion. The median age was 61 years. 62% of patients were female. 72% identified as white. (Figure 1).

 Colonoscopies were the most common delayed procedure (63%), followed by EGD with colonoscopy (19%), and EGD alone (18%). (Figure 2).

 Colorectal cancer screening was the most common indication for colonoscopy (77%), upper GI symptoms for EGD (31%), and symptoms including nausea, abdominal pain, or change in stool habits for EGD and colonoscopy (36%). (Figure 3).

• To date, 46% (N=91) of delayed endoscopies were completed. There was no significant difference in demographic factors for endoscopy completion. (Figures 1 and 2).

• The median time to endoscopy completion was 140 days (IQR 65-320) with no significant difference by type of endoscopy (p=0.64) or institution (p-0.48). (Figure 4).

CONCLUSION

 Endoscopic delays have longstanding implications for colon cancer screening and diagnosis or treatment of gastrointestinal disease.

• In this study, over half of our patients were lost to follow up. The majority who completed endoscopies did so with significant delay.

• As Covid-19 continues to impact our healthcare system, a commitment to improving the processes of completing screening and diagnostic endoscopies in a timely fashion is essential to improve this gap in patient care.