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COLECTOMY OUTCOMES IN PATIENTS OVER 65 WITH ULCERATION COLITIS

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Abstract

Introduction: There are limited data regarding surgical outcomes for elderly patients with Ulcerative Colitis, and we sought to examine the post-operative outcomes in this population.

Methods: The ACS NSQIP was queried for all patients with a diagnosis of ulcerative colitis and compared elderly patients (those aged 65 and older) to younger patients under age 65. Univariate and multivariate logistic regression was done to evaluate differences in morbidity and mortality rates.

Results: 2,699 patients were analyzed, of which 493 (18.3%) were defined as elderly. Elderly patients had more comorbidities compared to younger patients but were less likely to be on preoperative steroids (47.1% vs 74.2%, p<0.0001). Elderly patients had a higher proportion of emergent cases (27.6% vs 8.2%, p<0.0001) and an average 3 day longer hospital stay, (p<0.0001). There were no significant differences in the rates of anastomotic leak, surgical site infections or 30-day readmission. Elderly patients had a higher rate of morbidity (47.3% vs 26.8%, p<0.0001) and mortality (8.9% vs 1.2%, p<0.0001).

Multivariate analysis showed elderly patients had significantly increased odds for morbidity (OR 2.45, 95% CI: 2.00-2.99, p<0.0001) and 30-day mortality (OR 7.91, 95% CI: 4.85-12.91, p<0.001). Preoperative sepsis significantly increased the risk of morbidity (OR 3.457, 95% CI: 2.27-5.26, p < 0.0001) and mortality (OR 3.11, 95% Cl: 1.48-6.57, p < 0.003).

Conclusions: Elderly patients with Ulcerative Colitis that undergo a colectomy are at increased risk for both morbidity and mortality. Optimizing these patients may reduce the risk, but further prospective trials are warranted to further elucidate the ideal optimization strategies.

Introduction

- Colectomy is a commonly performed procedure for Ulcerative Colitis (UC)
- Patients over the age of 65 with Ulcerative Colitis is an increasing trend
- Outcomes after a colectomy in these patients are unknown
- Objective: Determine risk of morbidity and mortality among older patients with Ulcerative Colitis after a colectomy as compare to younger patients

Methods

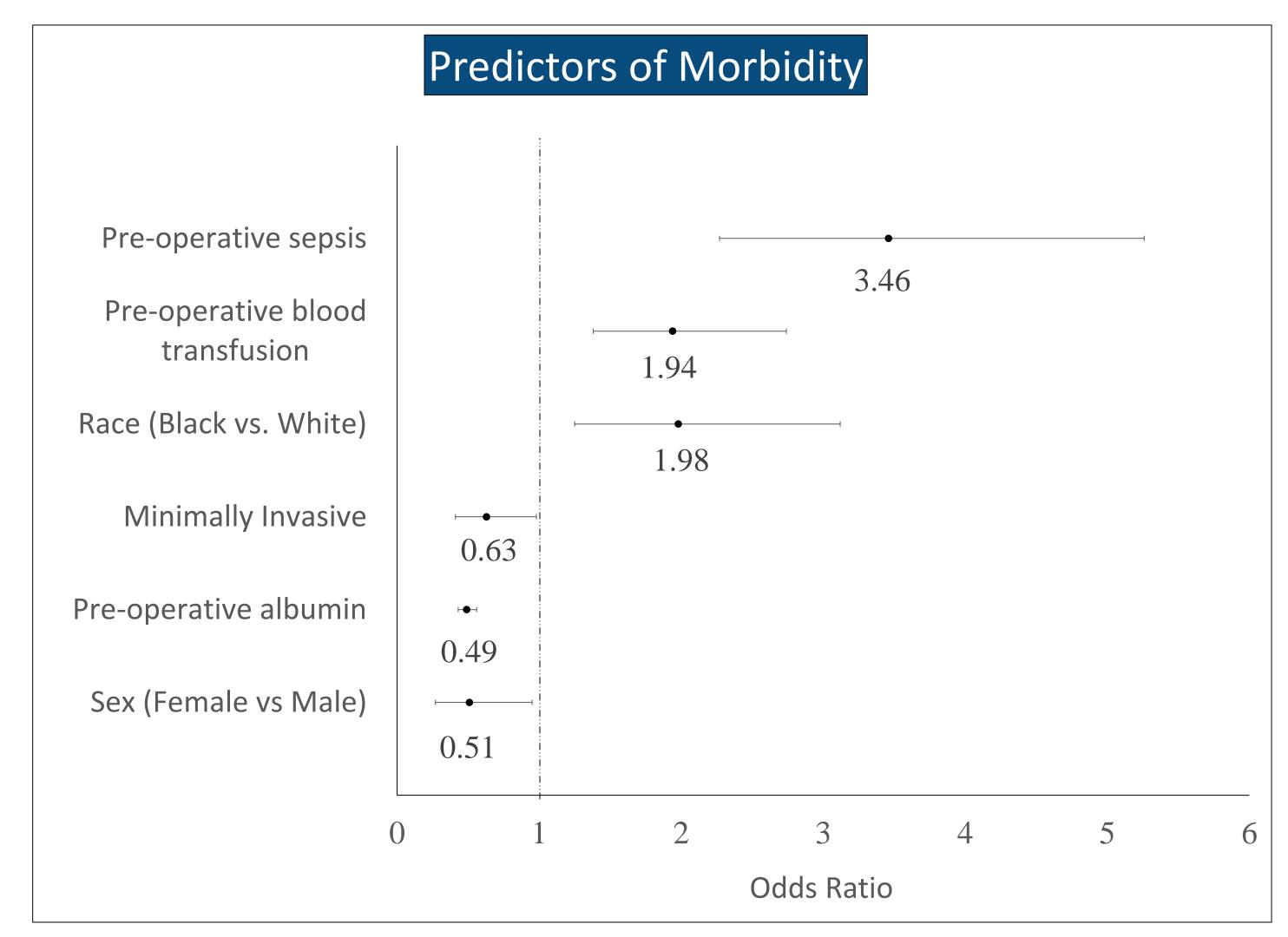
- Data: NSQIP Targeted Colectomy (2016)
- Variables:
- Morbidity: any 30-day complication
- Mortality: all-cause 30-day mortality
- Patients >/= 65 years old
- Analysis:
 - Descriptive analysis, univariable/multivariable logistic regression

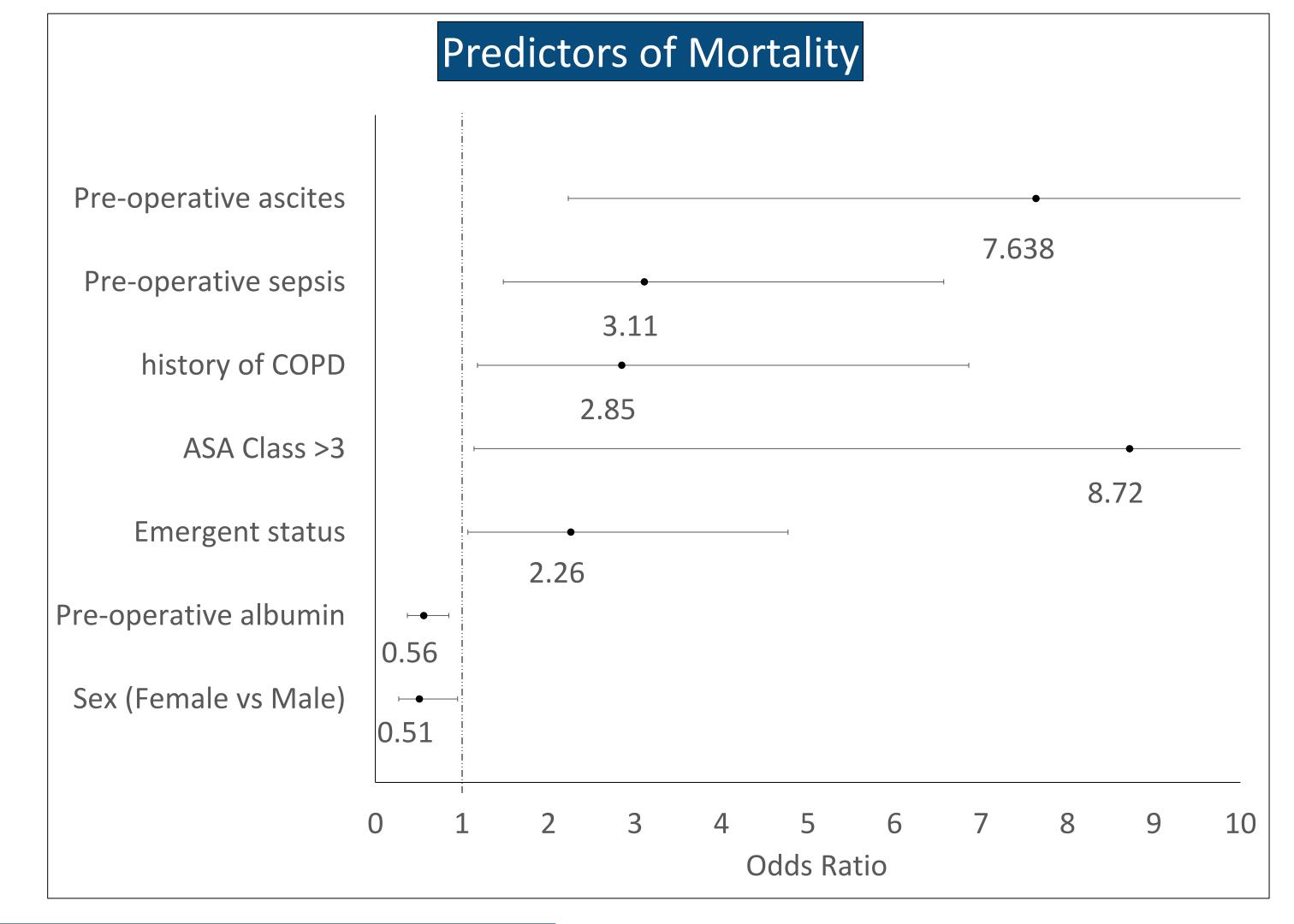
Conclusion

- Elderly patient with Ulcerative Colitis that undergo a colectomy have increased morbidity and mortality.
- Optimizing these patients may reduce the risk, but further prospective trials are warranted to further elucidate the ideal optimization strategies.

Results

Patient Characteristics			Procedure Characteristics			Complications		
*p<0.0001	<65 Years	65 or Older	*p < 0.0001	<65 Years	65 or Older	*p<0.0001	<65 Years	65 or Older
Female	964 (43.7%)	238 (48.3%)	Emergent*	304 (3.0%)	15 (3.0%)	Anastomotic Leak*	66 (3.0%)	15 (3.0%)
Male	1242 (56.3%)	255 (51.7%)	ASA Class*			lleus	408 (18.5%)	144 (29.2%)
Race				1001/10/1	101 (20 FO()	Superficial SSI	127 (5.8%)	22 (4.5%)
Black	109 (4.9%)	24 (4.9%)	1-2	1084 (49.1%)	101 (20.5%)	Organ/Space SSI	166 (7.5%)	32 (6.5%)
Other	306 (13.9%)	61 (12.4%)	>/=3	1122 (50.9%)	392 (79.5%)			
White	1791 (81.2%)	408 (82.8%)	Operative			Wound Dehiscence	40 (1.8%)	10 (2.0%)
Diabetes*	141 (6.4%)	102 (20.7%)	Time	195.6 [82.7]	194.1 [105.2]	Pneumonia*	47 (2.1%)	47 (9.5%)
Smoking	199 (9.0%)	54 (11.0%)	Length of			Reintubation*	38 (1.7%)	36 (7.3%)
Dyspnea*	75 (3.4%)	48 (9.7%)	Stay*	11.3 [12.9]	14.0 [12.5]	PE	18 (0.8%)	5 (1.0%)
COPD*	18 (0.8%)	55 (11.2%)	Disposition*			Vent > 48 Hours*	54 (2.4%)	49 (9.9%)
Ascites	16 (0.7%)	8 (1.6%)	Home	2076 (94.1%)	311 (63.1%)	Renal Failure*	14 (0.6%)	14 (2.8%)
CHF*	6 (0.3%)	16 (3.2%)				CVA	5 (0.2%)	3 (0.6%)
HTN*	338 (15.3%)	304 (61.7%)	Facility	107 (4.9%)	143 (29.0%)	Cardiac Arrest	10 (0.5%)	7 (1.4%)
Renal Failure*	11 (0.5%)	11 (2.2%)	Expired	23 (1.0%)	39 (7.9%)	MI	7 (0.3%)	8 (1.6%)
Albumin*	3.1 [0.9]	2.9 [0.8]				Transfusion*	339 (15.4%)	134 (27.2%)
Sepsis*	149 (6.8%)	79 (16.0%)				Septic Shock*	67 (3.0%)	55 (11.2%)





References

- 1. Lakatos PL, David G, Pandur T, Erdelyi Z, Mester G, Balogh M, et al. IBD in the elderly population: results from a population-based study in Western Hungary, 1977-2008. J Crohns Colitis. 2011;5(1):5-13.
- 2. Molodecky NA, Soon IS, Rabi DM, Ghali WA, Ferris M, Chernoff G, et al. Increasing incidence and prevalence of the inflammatory bowel diseases with time, based on systematic review. Gastroenterology. 2012;142(1):46-54.e42; quiz e30.
- 3. Jeuring SF, van den Heuvel TR, Zeegers MP, Hameeteman WH, Romberg-Camps MJ, Oostenbrug LE, et al. Epidemiology and Long-term Outcome of Inflammatory Bowel Disease Diagnosed at Elderly Age-An Increasing Distinct Entity? Inflamm Bowel Dis. 2016;22(6):1425-34. 4. Gisbert JP, Chaparro M. Systematic review with meta-analysis: inflammatory bowel disease in the elderly. Aliment Pharmacol Ther. 2014;39(5):459-77.
- 5. Loftus EV, Jr., Silverstein MD, Sandborn WJ, Tremaine WJ, Harmsen WS, Zinsmeister AR. Ulcerative colitis in Olmsted County, Minnesota, 1940-1993: incidence, prevalence, and survival. Gut. 2000;46(3):336-43.
- 6. Damhuis RA, Wereldsma JC, Wiggers T. The influence of age on resection rates and postoperative mortality in 6457 patients with colorectal cancer. International journal of colorectal disease. 1996;11(1):45-8.
- 7. Damhuis RA, Meurs CJ, Meijer WS. Postoperative mortality after cancer surgery in octogenarians
- 8. Bollegala N, Jackson TD, Nguyen GC. Increased Postoperative Mortality and Complications Among Elderly Patients With Inflammatory Bowel Diseases: An Analysis of the National Surgical Quality Improvement Program Cohort. Clin Gastroenterol Hepatol. 2016;14(9):1274-81.
- 9. Ananthakrishnan AN, McGinley EL, Binion DG. Inflammatory bowel disease in the elderly is associated with worse outcomes: a national study of hospitalizations. Inflamm Bowel Dis. 2009;15(2):182-9.
- 10. de Silva S, Ma C, Proulx MC, Crespin M, Kaplan BS, Hubbard J, et al. Postoperative complications and mortality following colectomy for ulcerative colitis. Clin Gastroenterol Hepatol. 2011;9(11):972-80. 12. Juneja M, Baidoo L, S