Esophagealgastroduodenoscopy in Patients Admitted for GERD

Background

- Gastroesophageal Reflux Disease (GERD) is a common gastrointestinal disorder in the United States. The decision to perform endoscopic evaluation inpatient requires the presence of certain red flag symptoms. A lesser studied aspect of this decision are other factors that may play a part in this decision including demographics.
- This study aims to investigate how these factors impact patients admitted for GERD with red flag symptoms who undergo esophagogastroduodenoscopy (EGD).

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				Result	S	
Tables 1 & 2:		Variable	P-Value	Odds Ratio (95% CI)	 Age and median income did not have a 	
Predictors of EGD for Patients Admitted for GERD			Hospital Region			statistically significant role
			New England	Reference		
Variable	P-Value	Odds Ratio (95% CI)	Middle Atlantic	.050	1.22 (1.00 - 1.50)	 African Americans and Hispanic were mor likely to get an EGD compared to Caucasia
			East North Central	.000	1.55 (1.27 - 1.90)	
Age			West North Central	.000	1.48 (1.17 - 1.87)	
			South Atlantic	.000	1.52 (1.25 - 1.84)	 Females were less likely to have endoscope valuations Patients admitted on a weekend were molikely to undergo an EGD
19 to 30	Reference		East South Central	.000	1.78 (1.43 - 2.23)	
30 to 50	.069	1.14 (0.99 - 1.30)	West South Central	.000	1.46 (1.19 - 1.79)	
51 to 60	.061	1.03 (0.89 - 1.20)	Mountain	.078	1.25 (0.98 - 1.60)	
61 to 79	028	0.84(0.72-0.08)	Pacific	.150	1.16 (0.95 - 1.41)	
011075	.028	0.84 (0.72 - 0.98)	Median Income			
<u>> 80</u>	.140	1.15 (0.96 - 1.38)	\$1 – 24,999	Reference		
Race			\$25,000 – 34,999	.933	1.00 (0.90 - 1.09)	
Caucasian	Reference		\$35,000 – 44,999	.340	0.95 (0.86 - 1.05)	 Patients outside the northwest region we all more likely to undergo an EGD.
	002		\$45,000 or more	.113	0.92 (0.82 - 1.02)	
African American	.002	1.18 (1.06 - 1.31)	Admission Day			Conclusion
Hispanic	.000	1.24 (1.11 - 1.40)	Weekday	Reference		
Asian, Pacific	.024	1.19 (1.02 - 1.38)	Weekend	.000	1.47 (1.35 - 1.59)	
Islander, Native American		Insurance Status			 Patient admission day had an influence on performing 	
			Private Insurance	Reference		 Procedure which may be attributed to availability of schedules or personnel. Understanding the confounding variables in endosco evaluations will help decrease patient morbidity and mortality while improving hospital costs and length o stays.
Gender			Medicaid	.000	1.46 (1.30 - 1.63)	
	Deference		Medicare	.000	1.51 (1.36 - 1.68)	
Female .003	Reference		No insurance	.000	1.98 (1.74 - 2.25)	
	.003	0.90 (0.84 - 0.96)	Other insurance status	.577	0.95 (0.78 - 1.15)	



Anmol Mittal MD¹; Alexander Le MD¹; Aaron Khalan MD¹; Sushil Ahlawat¹ MD **Department of Medicine, Rutgers New Jersey Medical School**

A retrospective analysis of the National \bullet Inpatient Sample 2001-2013 database where patients with a primary diagnosis of GERD were extracted using International Classification of Diseases, Ninth Revision (ICD-9) codes. Adjusted logistic regression using red flag symptoms was performed on the demographic data with a<0.001.

Methods

Red Flag symptoms

- Perforation
- Dysphagia
- Weight loss
- Hematemesis
- Persistent vomiting

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