

Supplementary material

Appendix 1 Codes and definitions.

Code	Codes System	Meaning
k22.7	ICD-10	Barrett's esophagus
k22.71	ICD-10	Barrett's esophagus with dysplasia
K22.710	ICD-10	Barrett's esophagus with low-grade dysplasia
k22.711	ICD-10	Barrett's esophagus with high-grade dysplasia
k22.719	ICD-10	Barrett's esophagus dysplasia unspecified
530.85	ICD-9	Barrett's esophagus
C15	ICD-10	Malignant neoplasm of esophagus
C15.4	ICD-10	Malignant neoplasm of middle third of esophagus
C15.5	ICD-10	Malignant neoplasm of lower third of esophagus
C15.8	ICD-10	Malignant neoplasm of overlapping sites of esophagus
C15.9	ICD-10	Malignant neoplasm of esophagus, unspecified site
150.2	ICD-9	Malignant neoplasm of abdominal esophagus
150.4	ICD-9	Malignant neoplasm of middle third of esophagus
150.5	ICD-9	Malignant neoplasm of lower third of esophagus
150.9	ICD-9	Malignant neoplasm of esophagus, unspecified site
530.81	ICD-9	Esophageal reflux
K21	ICD-10	Gastro-esophageal reflux disease
K22.0	ICD-10	Gastro-esophageal reflux disease without esophagitis
K22.9	ICD-10	Gastro-esophageal reflux disease with esophagitis
43197	CPT	Esophagoscopy flex dx brush
43198	CPT	Esophagoscopy flex transnasal biopsy
43200	CPT	Esophagoscopy flexible brush
43201	CPT	Esophagoscopy with submucosal injection
43202	CPT	Esophagoscopy flex biopsy
43235	CPT	Egd diagnostic brush wash
43239	CPT	Esophagogastroduodenoscopy, flexible, transoral; biopsy; single or multiple
43254	CPT	Esophagogastroduodenoscopy, flexible, transoral; with EMR (endoscopic mucosal resection)
43270	CPT	Esophagogastroduodenoscopy, flexible, transoral; with ablation of tumor(s), polyp(s), or other lesion(s) (includes pre- and post-dilation and guide wire passage, when performed)
43236	CPT	Esophagogastroduodenoscopy, flexible, transoral; with directed submucosal injection(s), any substance

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43243	CPT	Esophagogastroduodenoscopy, flexible, transoral; injection sclerosis of esophageal/gastric varices
43244	CPT	Esophagogastroduodenoscopy, flexible, transoral; band ligation of esophageal/gastric varices
43245	CPT	Esophagogastroduodenoscopy, flexible, transoral; with dilation of gastric/duodenal stricture(s) (eg, balloon, bougie)
43247	CPT	Esophagogastroduodenoscopy, flexible, transoral; with removal of foreign body(s)
43248	CPT	Esophagogastroduodenoscopy, flexible, transoral; insertion of guide wire followed by passage of dilator(s) through esophagus over guide
43249	CPT	Esophagogastroduodenoscopy, flexible, transoral; transendoscopic balloon dilation of esophagus (<30 mm)
43233	CPT	Esophagogastroduodenoscopy, flexible, transoral; with dilation of esophagus with balloon (30 mm diameter or larger) (includes fluoroscopic guidance, when performed)
43250	CPT	Esophagogastroduodenoscopy, flexible, transoral; with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps
43251	CPT	Esophagogastroduodenoscopy, flexible, transoral; with removal of tumor(s), polyp(s), or other lesion(s) by snare technique
43252	CPT	Esophagogastroduodenoscopy, flexible, transoral; with optical endomicroscopy
43255		Esophagogastroduodenoscopy, flexible, transoral; with control of bleeding, any method
43257	CPT	Esophagogastroduodenoscopy, flexible, transoral; with delivery of thermal energy to the muscle of lower esophageal sphincter and/or gastric cardia, for treatment of gastroesophageal reflux disease 4

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Appendix 2 Cox proportional Hazards Model of the predictors of incident diagnosis of esophageal cancer in the 6,024,498 Floridian population.

Characteristic	HR (95% CI)	p-value
Age		
45–64 vs <45	0.04 (0.03,0.06)	<0.001
>=65 vs <45	0.5 (0.5,0.6)	<0.001
Gender		
Male vs Female	0.2 (0.2,0.2)	<0.001
Race		
NHB vs NHW	0.4 (0.3,0.5)	<0.001
Hispanic vs NHW	0.6 (0.5,0.7)	<0.001
NHO vs NHW	0.5 (0.4,0.7)	<0.001
GERD		
Yes vs No	0.2 (0.1,0.2)	<0.001
PPI		
Yes vs No	0.5 (0.4,0.6)	<0.001

NHW: non-Hispanic white; NHB: non-Hispanic black; NHO: non-Hispanic white.

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Appendix 3: Cox proportional Hazards Model of the predictors of incident diagnosis of Barrett's esophagus in the population

Characteristic	HR (95% CI)	p-value
Age		
45-64 vs <45	0.2(0.2,0.2)	<0.001
>=65 vs <45	0.8(0.8,0.8)	<0.001
Gender		
Male vs Female	0.6 (0.6,0.6)	<0.001
Race		
NHB vs NHW	0.3 (0.3,0.3)	<0.001
Hispanic vs NHW	0.6 (0.5,0.60)	<0.001
NHO vs NHW	0.7 (0.7,0.7)	<0.001
Gerd		
Yes vs No	0.1 (0.1,0.1)	<0.001
PPI		
Yes vs No	0.6 (0.6,0.6)	<0.001

NHW, non-Hispanic white; NHB, non-Hispanic black; NHO, non-Hispanic Other; GERD, gastroesophageal reflux disease; PPI, proton pump inhibitor.