

Other histology	1.79 (1.28, 2.52)	0.001
Stage		
Stage 0	Reference	
Stage 1A	2.56 (2.19, 5.51)	<0.001
Stage 1B	3.47 (2.19, 5.51)	<0.001
Year of diagnosis	0.95 (0.91, 0.99)	0.026
Radiation	3.04 (1.03, 1.06)	0.003
SEER Region		
Northeast	2.00 (1.26, 3.17)	0.003
Midwest	Reference	
West	2.63 (1.66, 4.16)	<0.001
South	1.98 (1.31, 3.01)	0.001
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<u>Model 2: EC Stage T0 and T1a</u>		
EET vs. Surgery	1.18 (0.78, 1.80)	0.437
Age at diagnosis	1.04 (1.02, 1.06)	<0.001
Histology		
Adenocarcinoma	Reference	
Squamous cell histology	1.71 (1.15, 2.54)	0.008
Other histology	1.74 (1.06, 2.86)	0.028
Stage		
Stage 0	Reference	
Stage 1A	2.49 (1.56, 3.99)	<0.001
Year of diagnosis	0.94 (0.88, 0.99)	0.032
Radiation	4.45 (3.12, 6.35)	<0.001
SEER Region		
Northeast	2.39 (1.21, 4.72)	0.012
Midwest	2.60 (1.30, 5.20)	
West	Reference	0.007
South	2.09 (1.11, 3.93)	0.022

Supplementary Table 1: Endoscopic eradication therapy modalities and surgical resection techniques utilized for early esophageal cancer

Endoscopic eradication therapy (n=430)	Number (%)
Endoscopic mucosal resection (EMR) alone	295 (69)
EMR plus photodynamic therapy (PDT)	23 (5)
EMR plus ablation	45 (10)
PDT alone	42 (10)
Ablation alone ¹	21 (5)
Ablative therapy, not otherwise specified	4 (1)

Surgical resection technique (n=1586)	Number (%)
Partial esophagectomy	294 (19)
Total esophagectomy, not otherwise specified	125 (8)
Esophagectomy, not otherwise specified	60 (4)
Esophagectomy plus partial/total gastrectomy	988 (62)
Esophagectomy plus laryngectomy +/- gastrectomy	119 (7)

¹ Ablation – electrocautery, cryosurgery, laser

Supplementary Table 2: Time-trend evaluation of endoscopic eradication therapies and esophagectomy in early esophageal cancer (overall) and based on stage.

Treatment	1998-2000 (n,%)	2001-2003 (n,%)	2004-2006 (n,%)	2007-2009 (n,%)	<i>P</i> for trend
EC overall					
EET	37 (12.9)	71 (14.5)	136 (21.5)	186 (30.8)	<0.001
Surgery	251 (87.2)	420 (85.5)	497 (78.5)	418 (69.2)	
Stage 0					
EET	16 (29.6)	35 (31.3)	41 (34.8)	50 (68.5)	<0.001

Surgery	38 (70.4)	77 (68.8)	77 (65.3)	23 (31.5)	
Stage 1A					
EET	15 (11.8)	28 (14.9)	80 (27.6)	109 (33.0)	<0.001
Surgery	112 (88.2)	160 (85.1)	210 (72.4)	221 (67.0)	
Stage 1B					
EET	6 (5.6)	8 (4.2)	15 (6.7)	27 (13.4)	0.004
Surgery	101 (94.4)	183 (95.8)	210 (93.3)	174 (86.6)	