

Supplementary

Table S1 Cox proportional hazards model of cT1-2N0M0 patients undergoing definitive chemoradiation.

Covariate	HR (95% CI)	P value
Age category		
<65	[Reference]	
65 to 74	1.023 (0.97-1.07)	0.35
≥75	1.13 (1.06-1.20)	<0.001
Sex		
Male	[Reference]	
Female	0.84 (0.81-0.89)	<0.001
Race		
White	[Reference]	
Non-white	0.98 (0.93-1.04)	0.58
Origin		
Non-Hispanic	[Reference]	
Hispanic	0.85 (0.77-0.95)	0.003
Unknown	0.97 (0.91-1.04)	0.47
Insurance		
Not insured	1.25 (1.14-1.36)	<0.001
Private insurance	[Reference]	
Medicaid	1.28 (1.19-1.36)	<0.001
Medicare	1.11 (1.06-1.17)	<0.001
Other government	1.02 (0.91-1.16)	0.64
Unknown	1.21 (1.04-1.40)	0.01
Facility location		
Northeast	[Reference]	
Midwest	1.04 (1.00-1.10)	0.04
South	1.08 (1.03-1.13)	<0.001
West	1.02 (0.96-1.08)	0.35
Area of residence^a		
Rural	0.97 (0.86-1.10)	0.71
Urban	1.04 (0.99-1.10)	0.06
Metropolitan	[Reference]	
Unknown	0.98 (0.89-1.09)	0.83
Distance		
≤10	[Reference]	
10 to 20	0.99 (0.94-1.03)	0.73
20 to 50	0.92 (0.88-0.97)	0.002
50 to 100	0.86 (0.80-0.93)	<0.001

Table S1 (continued)

Table S1 (continued)

Covariate	HR (95% CI)	P value
>100	0.79 (0.73-0.85)	<0.001
Median income		
<38000	1.03 (0.96-1.10)	0.34
38000 to 47999	1.01 (0.94-1.06)	0.83
48000 to 62999	1.04 (0.99-1.09)	0.07
>63000	[Reference]	
Unknown	1.14 (0.59-2.20)	0.69
Education, %^b		
≥21	1.07 (0.99-1.15)	0.07
13 to 20.9	1.04 (0.98-1.11)	0.12
7 to 12.9	1.01 (0.96-1.06)	0.61
<7	[Reference]	
Unknown	1.05 (0.51-2.17)	0.88
Histology		
Adenocarcinoma	[Reference]	
Squamous cell carcinoma	1.12 (1.06-1.17)	<0.001
Other	1.19 (1.10-1.30)	<0.001
Primary site		
Upper esophagus	0.82 (0.75-0.90)	<0.001
Middle esophagus	[Reference]	
Lower esophagus	0.90 (0.85-0.95)	<0.001
Overlapping	1.12 (1.02-1.22)	0.01
Esophagus, NOS	0.93 (0.86-0.99)	0.05
Grade		
Well differentiated	[Reference]	
Moderately differentiated	1.17 (1.08-1.28)	<0.001
Poorly differentiated or undifferentiated	1.39 (1.28-1.52)	<0.001

Table S1 (continued)

Table S1 (continued)

Covariate	HR (95% CI)	P value
Year of diagnosis		
2004	[Reference]	
2005	0.98 (0.90-1.09)	0.82
2006	0.97 (0.89-1.07)	0.54
2007	0.93 (0.84-1.02)	0.11
2008	0.93 (0.85-1.02)	0.13
2009	0.85 (0.77-0.93)	<0.001
2010	0.86 (0.78-0.95)	<0.001
2011	0.79 (0.72-0.87)	<0.001
2012	0.79 (0.72-0.87)	<0.001
2013	0.82 (0.74-0.89)	<0.001
2014	0.76 (0.69-0.84)	<0.001
2015	0.80 (0.73-0.88)	<0.001
Refused recommended surgery		
No	[Reference]	
Yes	0.64 (0.57-0.73)	<0.001
Charlson-Deyo score		
0	[Reference]	
1	1.08 (1.04-1.13)	<0.001
≥2	1.14 (1.06-1.22)	<0.001

^aBased on patient's zip code area; ^bPercent of people in the patient's zip code area with no high-school diploma.