

Table S1 Neoadjuvant chemoradiation group versus rest of cohort with multivariable analyses

Variables	Surgery only		Chemoradiation before		Odds ratio for Chemoradiation (95% confidence intervals in parentheses)
	N	%	N	%	P value for overall difference
All	2,193	100	717	100	
Age at Diagnosis					<0.0001
Mean, SD	65	10.4	60	9.6	
Median, Q1–Q3	66	57–73	60	53–67	
<50	197	9.0	111	15.5	REF
50–59	470	21.4	238	33.2	0.90 (0.68, 1.19)
60–69	736	33.6	247	34.5	0.60 (0.45, 0.78)
70–79	790	36.0	121	16.9	0.27 (0.20, 0.37)
Sex					0.9247
Male	1,320	60.2	433	60.4	REF
Female	873	39.8	284	39.6	0.99 (0.83, 1.18)
Race					0.33
White	1,941	88.5	620	86.5	REF
Black	191	8.7	75	10.5	1.23 (0.93, 1.63)
Other	61	2.8	22	3.1	1.13 (0.69, 1.85)
Urban/rural					0.049
Metro	1,720	78.4	587	81.9	REF
Urban, non-metro	473	21.6	130	18.1	0.81 (0.65, 1.00)
Primary payor					<0.0001
Not Insured	74	3.4	40	5.6	REF
Private	816	37.2	360	50.2	0.82 (0.54, 1.22)
Medicaid	162	7.4	65	9.1	0.74 (0.46, 1.20)
Medicare	1,141	52.0	252	35.2	0.41 (0.27, 0.61)
Income					0.1155
Q1	415	18.9	108	15.1	REF
Q2	507	23.1	180	25.1	1.36 (1.04, 1.79)
Q3	605	27.6	210	29.3	1.33 (1.02, 1.74)
Q4	666	30.4	219	30.5	1.26 (0.97, 1.64)
Charlson-Deyo Score					<0.0001
0	1,097	50.0	452	63.0	REF
1	777	35.4	206	28.7	0.64 (0.53, 0.78)
2+	319	14.6	59	8.2	0.45 (0.33, 0.61)
Region					0.0251
Midwest	626	28.6	233	32.5	REF
Northeast	425	19.4	157	21.9	0.99 (0.78, 1.26)
South	880	40.1	257	35.8	0.78 (0.64, 0.96)
West	262	12.0	70	9.8	0.72 (0.53, 0.97)
Great circle distance					0.3701
Mean, SD	29	76.4	35	94.5	
Median, Q1–Q3	13	5.5–31.5	13	5.3–32.5	
Facility type					0.0322
Community Cancer Program	161	7.3	42	5.9	REF
Comprehensive Community Cancer Program	932	42.5	273	38.1	1.12 (0.78, 1.62)
Academic/Research	817	37.3	289	40.3	1.36 (0.94, 1.95)
Integrated Network Cancer Program	283	12.9	113	15.8	1.53 (1.02, 2.29)
Facility volume (surgeries per year)					0.0024
<40 per year	1,005	45.8	282	39.3	REF
40+ per year	1,188	54.2	435	60.7	1.30 (1.10, 1.55)
Vital Status					
Dead	740	33.7	307	42.8	
Alive	1,453	66.3	410	57.2	
30-day mortality					
Alive	2,123	96.8	699	97.5	
Dead	70	3.2	18	2.5	
90-day mortality					
Alive	2,022	92.2	683	95.3	
Dead	171	7.8	34	4.7	