

**Appendix 2. Characteristics of Propensity Score Matched Cohort of Patients
Stratified by Guideline-Adherent and Guideline-Discordant Care According to the
National Comprehensive Cancer Network Treatment Guidelines**

Variable		Total (N=7469)	guideline-adherent care (N=3778)		guideline-discordant care (N=3691)		p- value
			N	%	N	%	
Patient factors							
Age (years)							
	<40	1203	610	50.7	593	49.3	0.822
	40-49	1921	968	50.4	953	49.6	
	50-59	1936	982	50.7	954	49.3	
	60-69	1272	660	51.9	612	48.1	
	70-79	825	411	49.8	414	50.2	
	≥80	312	147	47.1	165	52.9	
Race, N(%)							
	non-Hispanic white	4515	2285	50.6	2230	49.4	0.732
	non-Hispanic black	1496	751	50.2	745	49.8	
	Hispanic	1027	533	51.9	494	48.1	
	Other	431	209	48.5	222	51.5	
Insurance Status, N(%)							
	Uninsured/Medicaid	3104	1561	50.3	1543	49.7	0.985
	Private	2572	1307	50.8	1265	49.2	
	Medicare	1793	910	50.8	883	49.2	
Income, N(%)							
	< \$38,000	1700	900	52.9	800	47.1	0.331
	\$38,000 - \$47,999	1681	856	50.9	825	49.1	
	\$48,000 - \$62,999	2037	973	47.8	1064	52.2	
	≥ \$63,000	1916	964	50.3	952	49.7	
Charlson Score, N(%)							
	0	6408	3256	50.8	3152	49.2	0.979
	1	822	406	49.4	416	50.6	
	2 or more	239	116	48.5	123	51.5	
Tumor factors							
Stage							
	I (IB2)	612	307	50.2	305	49.8	0.82
	II (IIA1, IIA2,IIB)	3194	1636	51.2	1558	48.8	

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	III (IIIA, IIIB)	3274	1649	50.4	1625	49.6	
	IV (IVB)	389	186	47.8	203	52.2	
Histology, N(%)							
	Squamous carcinoma	6752	3430	50.8	3322	49.2	0.627
	Adenocarcinoma	717	348	48.5	369	51.5	
Grade, N(%)							
	2-Jan	2776	1394	50.2	1382	49.8	0.64
	3/undifferentiated	2345	1185	50.5	1160	49.5	
	Unknown	2348	1199	51.1	1149	48.9	
Treatment factors							
Hospital Volume, N(%)							
	Low	1819	916	50.4	903	49.6	0.243
	Intermediate	3806	1923	50.5	1883	49.5	
	High	1844	939	50.9	905	49.1	
Year of Diagnosis, N(%)							
	2004-2006	2320	1193	51.4	1127	48.6	0.879
	2007-2009	2429	1215	50.0	1214	50.0	
	2010-2012	2720	1370	50.4	1350	49.6	
Distance to the hospital (quartiles)							
	1st quartile (<4.5 miles)	2091	1063	50.8	1028	49.2	0.901
	2nd Quartile (4.6-10 miles)	1957	983	50.2	974	49.8	
	3rd Quartile (10.1-85 miles)	1751	874	49.9	877	50.1	
	4th Quartile (>85.1 miles)	1670	858	51.4	812	48.6	
Treatment modality, N(%)							
Adherent to NCCN guidelines							<0.001
	EBRT+chemotherapy+ brachytherapy	3578	0	0.0	3578	100.0	
	EBRT+chemotherapy+ surgery	113	0	0.0	113	100.0	
Not adherent to NCCN guidelines							<0.001
	EBRT alone	749	749	100.0		0 (0%)	
	EBRT + brachytherapy	991	991	100.0		0 (0%)	
	EBRT + chemotherapy	2038	2038	100.0		0 (0%)	

EBRT, external beam radiation therapy; NCCN, National Comprehensive Cancer

Network.

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