

**S4 Table.** Comparison of patient characteristics by the receipt of radiotherapy before and after propensity score matching

Characteristic	Unmatched cohort			Propensity score matched cohort		
	Non-RT group (n=479)	RT group (n=518)	p-value	Non-RT group (n=399)	RT group (n=399)	p-value
Age at diagnosis (yr)						
Median (IQR)	61 (51-70)	58 (51-67)	0.033	60 (50-69)	58 (50-67)	0.199
Race						
White	373 (77.9)	419 (80.9)	0.441	315 (78.9)	314 (78.7)	0.814
Black	64 (13.4)	63 (12.2)		50 (12.5)	54 (13.5)	
Others	40 (8.4)	34 (6.6)		33 (8.3)	29 (7.3)	
Unknown	2 (0.4)	2 (0.4)		1 (0.3)	2 (0.5)	
Marital status						
Single	214 (44.7)	178 (34.4)	< 0.001	164 (41.6)	157 (39.3)	0.519
Married	248 (51.8)	330 (63.7)		235 (58.4)	242 (60.7)	
Unknown	17 (3.5)	10 (1.9)		0 (0)	0 (0)	
Grade						
1	6 (1.3)	4 (0.8)	0.193	5 (1.3)	4 (1.0)	0.610
2	24 (5.0)	25 (4.8)		24 (6.0)	21 (5.3)	
3	99 (20.7)	125 (24.1)		90 (22.6)	100 (25.1)	
Undifferentiated	14 (2.9)	7 (1.4)		10 (2.5)	6 (1.5)	
Unknown	336 (70.1)	357 (68.9)		270 (67.7)	268 (67.2)	
Estrogen receptor status						
Negative	119 (24.8)	167 (32.2)	0.197	164 (41.1)	168 (42.1)	0.774
Positive	179 (37.4)	205 (39.6)		235 (58.9)	231 (57.9)	
Unknown	181 (37.8)	146 (28.2)		0	0	
Progesterone receptor status						
Negative	171 (35.7)	225 (43.4)	0.480	224 (56.1)	233 (58.4)	0.520
Positive	120 (25.0)	141 (27.2)		175 (43.9)	166 (41.6)	
Unknown	188 (39.2)	152 (29.3)		0	0	
Breast operation						
Mastectomy	191 (39.9)	199 (38.4)	0.179	161 (40.4)	148 (37.1)	
Lumpectomy	55 (11.5)	80 (15.4)		51 (12.8)	67 (16.8)	
Not done	227 (47.4)	231 (44.6)		187 (46.9)	184 (46.1)	
Unknown	6 (1.3)	8 (1.5)		0	0	
Axilla LN operation						
ALND	327 (68.3)	442 (85.3)	< 0.001	326 (81.7)	325 (81.5)	0.927
ALNS ( $\leq 3$ )	151 (31.5)	74 (14.3)		73 (18.3)	74 (18.6)	

Unknown	1 (0.2)	2 (0.4)		0	0	
No. of examined LNs						
Mean (IQR)	12 (3-18)	15 (8-20)	< 0.001	14 (7-20)	13 (7-19)	0.410
No. of metastatic LNs						
Mean (IQR)	4 (1-4)	6 (1-8)	< 0.001	4 (1-5)	5 (1-7)	0.139

RT, radiotherapy; IQR, interquartile range; LN, lymph node; ALND, axillary lymph node dissection; ALNS, axillary lymph node sampling.