

**Table S1.** Patient characteristics stratified by treatment modality, covariate balance before and after IPTW in node-negative stage III (T3N0M0) nasopharyngeal carcinoma.

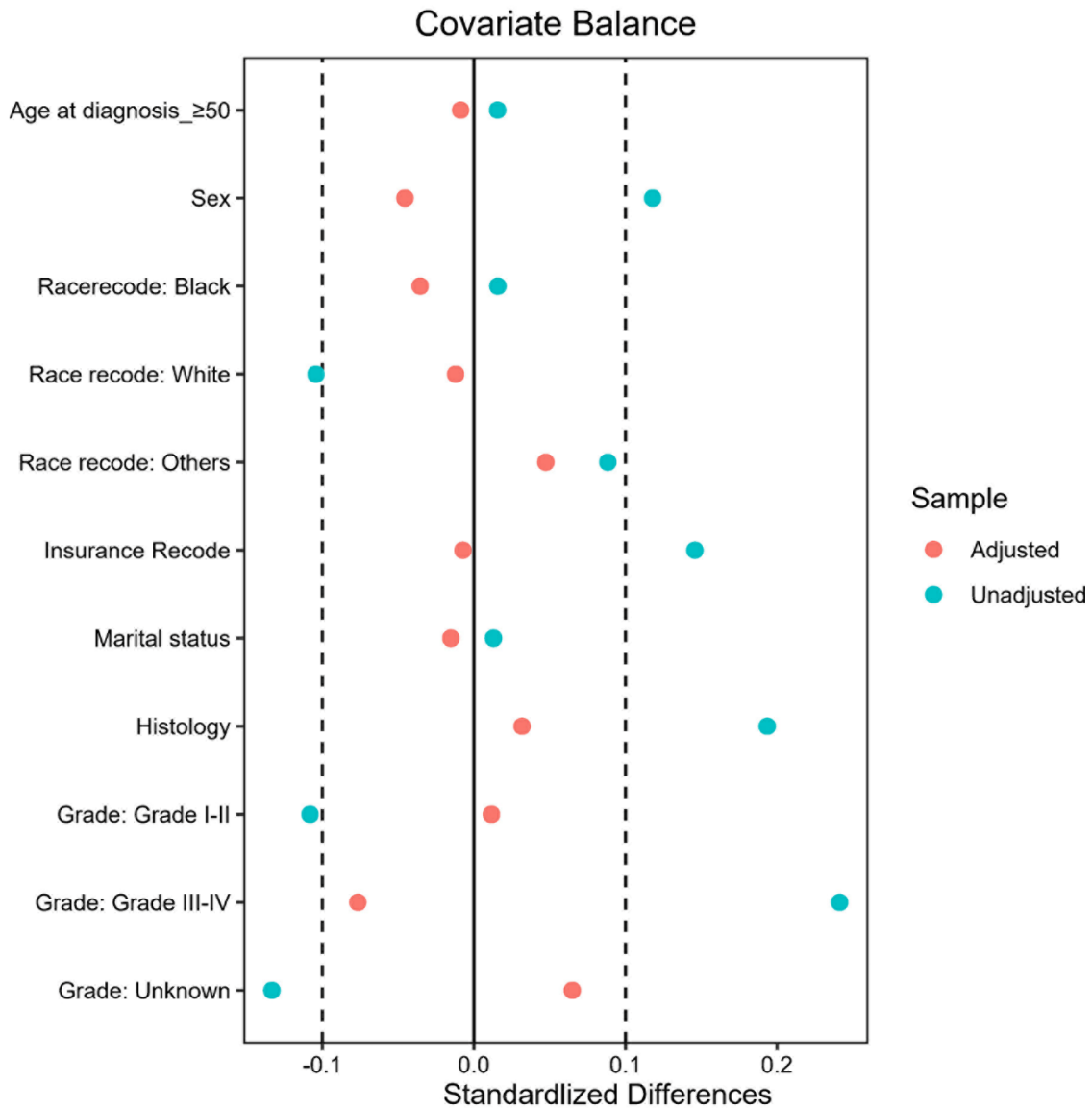
Variable	Baseline Characteristics			Covariate Balance	
	No N=34	Chemotherapy N=173	P value	Before	After
Age			1.000	0.016	-0.009
<50	8 (23.5%)	38 (22.0%)			
≥50	26 (76.5%)	135 (78.0%)			
Sex			0.268	0.118	-0.046
Female	16 (47.1%)	61 (35.3%)			
Male	18 (52.9%)	112 (64.7%)			
Race			0.568		
Black	3 (8.82%)	18 (10.4%)		0.016	-0.035
White	23 (67.6%)	99 (57.2%)		-0.104	-0.012
Others	8 (23.5%)	56 (32.4%)		0.088	0.047
Insurance status			0.132	0.146	-0.007
Insured	14 (41.2%)	46 (26.6%)			
Uninsured	20 (58.8%)	127 (73.4%)			
Marital status			1.000	0.013	-0.015
Married	14 (41.2%)	69 (39.9%)			
Unmarried	20 (58.8%)	104 (60.1%)			
Histology			0.047	0.194	0.032
Non-squamous	17 (50.0%)	53 (30.6%)			
Squamous	17 (50.0%)	120 (69.4%)			
Tumor grade			0.025		
Grade I-II	8 (23.5%)	22 (12.7%)		-0.108	0.012
Grade III-IV	14 (41.2%)	113 (65.3%)		0.241	-0.077
Unknown	12 (35.3%)	38 (22.0%)		-0.133	0.065

Abbreviation: IPTW, inverse probability of treatment weighting.

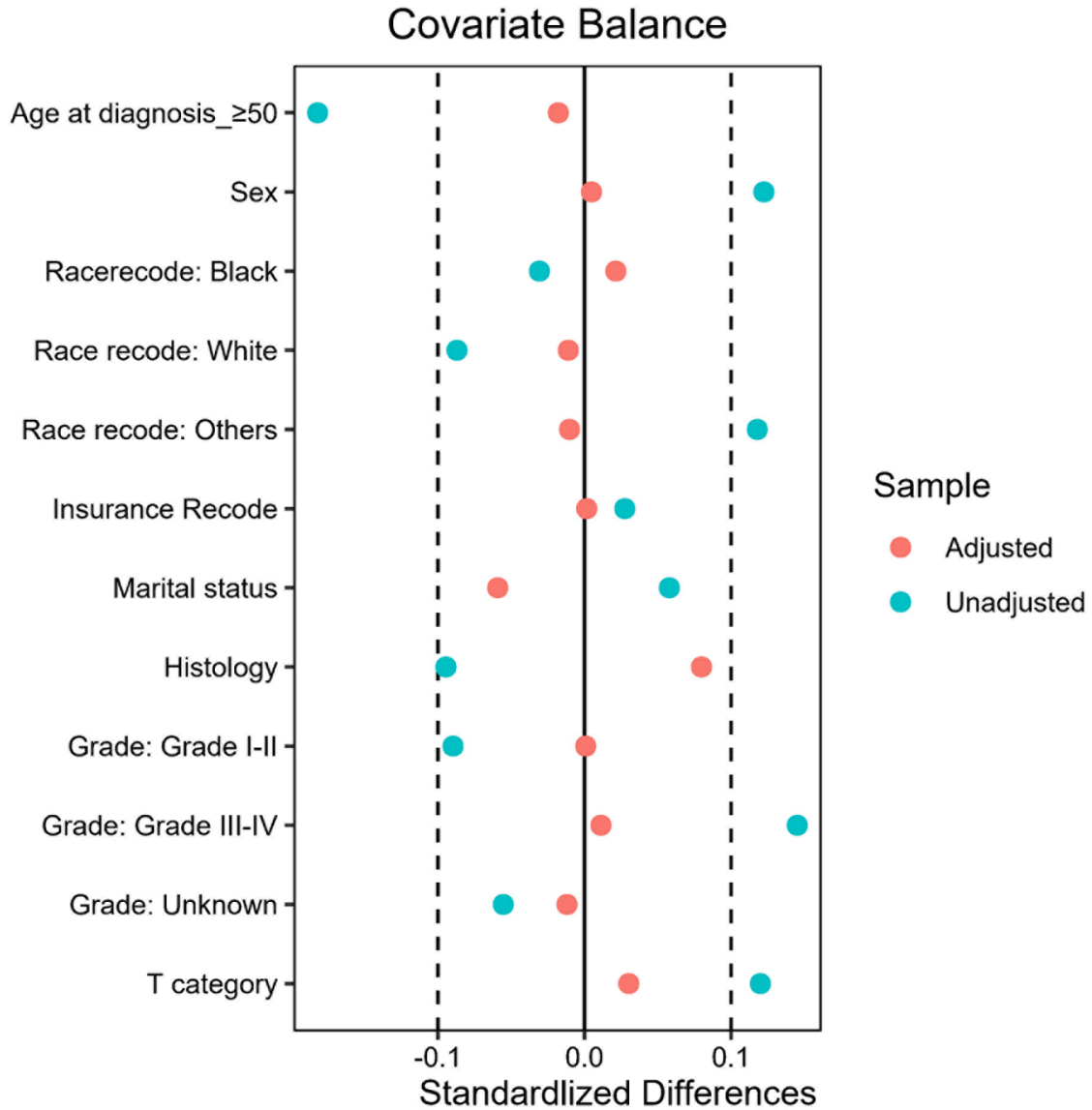
**Table S2.** Patient characteristics stratified by treatment modality, covariate balance before and after IPTW in node-positive stage III (T3N1M0/T1-3N2M0) nasopharyngeal carcinoma.

Variable	Baseline Characteristics			Covariate Balance	
	No N=57	Chemotherapy N=1188	P value	Standardized Before	Standardized After
Age			0.010	-0.182	-0.018
<50	15 (26.3%)	529 (44.5%)			
≥50	42 (73.7%)	659 (55.5%)			
Sex			0.065	0.122	0.005
Female	23 (40.4%)	334 (28.1%)			
Male	34 (59.6%)	854 (71.9%)			
Race			0.216		
Black	9 (15.8%)	151 (12.7%)		-0.031	0.021
White	29 (50.9%)	501 (42.2%)		-0.087	-0.011
Others	19 (33.3%)	536 (45.1%)		0.118	-0.010
Insurance status			0.751	0.028	0.001
Insured	15 (26.3%)	280 (23.6%)			
Uninsured	42 (73.7%)	908 (76.4%)			
Marital status			0.467	0.058	-0.060
Married	27 (47.4%)	494 (41.6%)			
Unmarried	30 (52.6%)	694 (58.4%)			
Histology			0.188	-0.095	0.080
Non-squamous	15 (26.3%)	425 (35.8%)			
Squamous	42 (73.7%)	763 (64.2%)			
Tumor grade			0.020		
Grade I-II	9 (15.8%)	81 (6.82%)		-0.090	0.001
Grade III-IV	28 (49.1%)	756 (63.6%)		0.145	0.011
Unknown	20 (35.1%)	351 (29.5%)		-0.055	-0.012
T category			0.066	0.120	0.030
T1	22 (38.6%)	316 (26.6%)			
T2-3	35 (61.4%)	872 (73.4%)			

Abbreviation: IPTW, inverse probability of treatment weighting.



**Fig. S1.** Balance between treatment groups in patients with node-negative stage III (T3N0M0) evaluated by standardized mean difference (SMD) before and after inverse probability of treatment weighting (IPTW) adjustment. A SMD less than 0.1 indicates good balance.



**Fig. S2.** Balance between treatment groups in patients with node-positive stage III (T3N1M0/T1-3N2M0) nasopharyngeal carcinoma evaluated by standardized mean difference (SMD) before and after inverse probability of treatment weighting (IPTW) adjustment. A SMD less than 0.1 indicates good balance.