Figure S1 ROC curves for these nomograms in training set (A) and validation set (B). AUC, area under the curve; OS, overall survival; BCSS, breast cancer-specific survival; ROC, receiver operating characteristic.
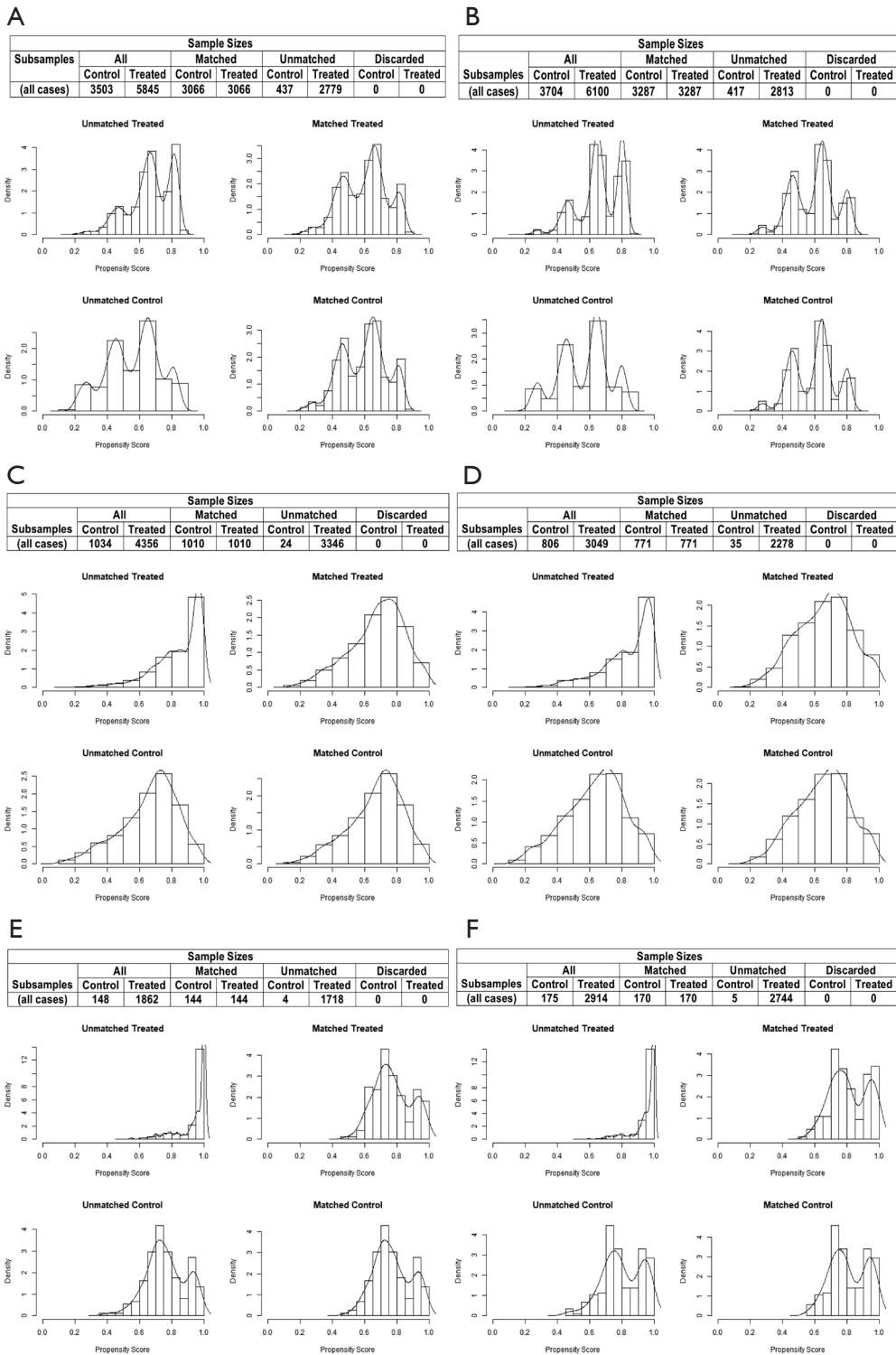
Figure S2 The distribution of propensity scores for paired and unpaired patients of the ALND group from the training set and all the SLNB groups. (A) OS and (B) BCSS of patients with low GMTRL scores, (C) OS and (D) BCSS of patients with moderate GMTRL scores, (E) OS and (F) BCSS of patients with high GMTRL scores. The control group means the SLNB group, and the treated group means the ALND group. GMTRL, grade, marital status, T stage, radiotherapy and lymph node metastasis; OS, overall survival; BCSS, breast cancer-specific survival; ALND, axillary lymph node dissection.
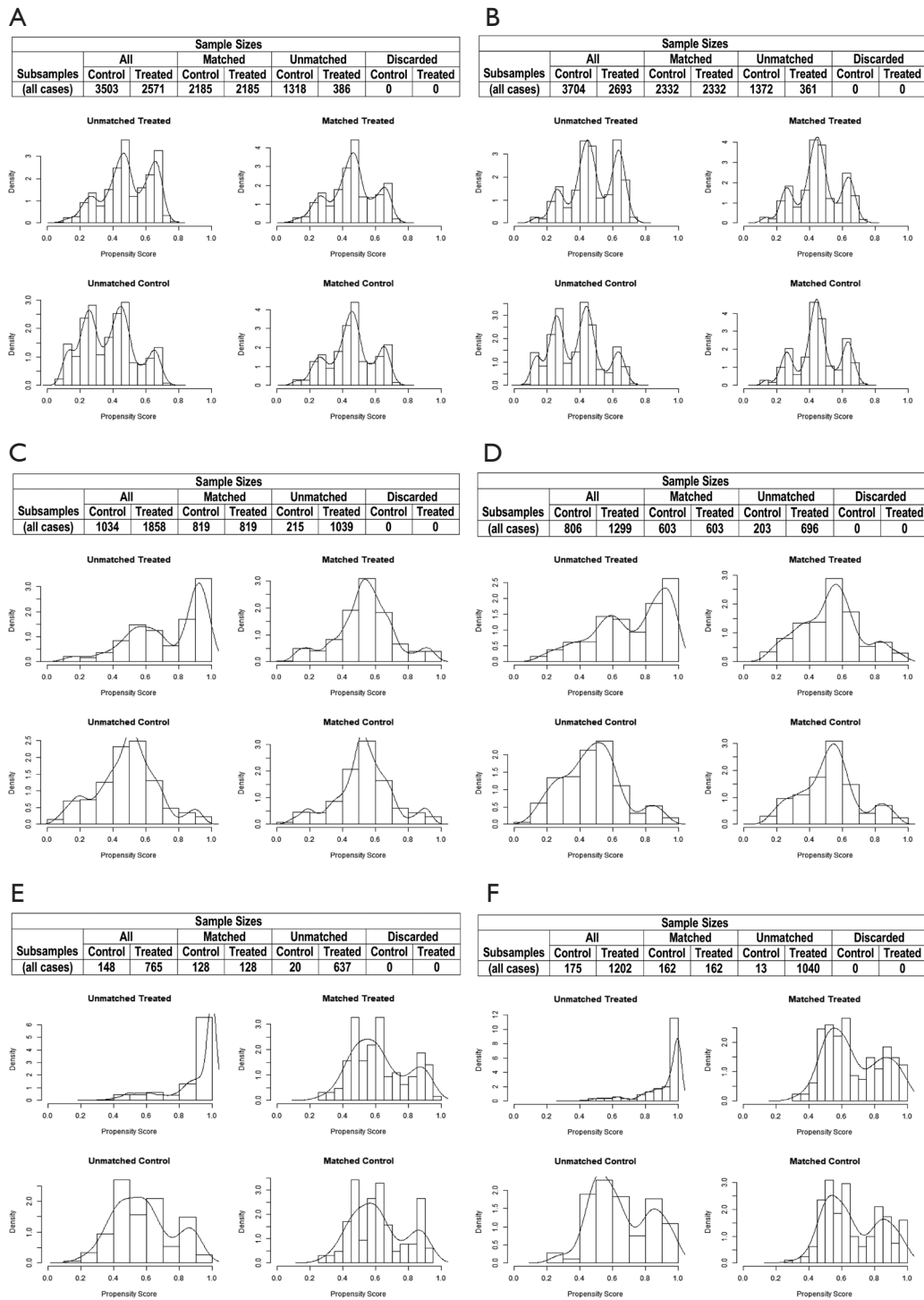
A

Sample Sizes								
	All		Matched		Unmatched		Discarded	
Subsamples	Control	Treated	Control	Treated	Control	Treated	Control	Treated
(all cases)	3503	2571	2185	2185	1318	386	0	0

B

Sample Sizes								
	All		Matched		Unmatched		Discarded	
Subsamples	Control	Treated	Control	Treated	Control	Treated	Control	Treated
(all cases)	3704	2693	2332	2332	1372	361	0	0

C

Sample Sizes								
	All		Matched		Unmatched		Discarded	
Subsamples	Control	Treated	Control	Treated	Control	Treated	Control	Treated
(all cases)	1034	1858	819	819	215	1039	0	0

D

Sample Sizes								
	All		Matched		Unmatched		Discarded	
Subsamples	Control	Treated	Control	Treated	Control	Treated	Control	Treated
(all cases)	806	1299	603	603	203	696	0	0

E

Sample Sizes								
	All		Matched		Unmatched		Discarded	
Subsamples	Control	Treated	Control	Treated	Control	Treated	Control	Treated
(all cases)	148	765	128	128	20	637	0	0

F

Sample Sizes								
	All		Matched		Unmatched		Discarded	
Subsamples	Control	Treated	Control	Treated	Control	Treated	Control	Treated
(all cases)	175	1202	162	162	13	1040	0	0

Figure S3 The distribution of propensity scores for paired and unpaired patients of the ALND group from the validation set and all the SLNB groups. (A) OS and (B) BCSS of patients with low GMTRL scores, (C) OS and (D) BCSS of patients with moderate GMTRL scores, (E) OS and (F) BCSS of patients with high GMTRL scores. The control group means the SLNB group, and the treated group means the ALND group. GMTRL, grade, marital status, T stage, radiotherapy and lymph node metastasis; OS, overall survival; BCSS, breast cancer-specific survival; ALND, axillary lymph node dissection.