

Supplementary materials

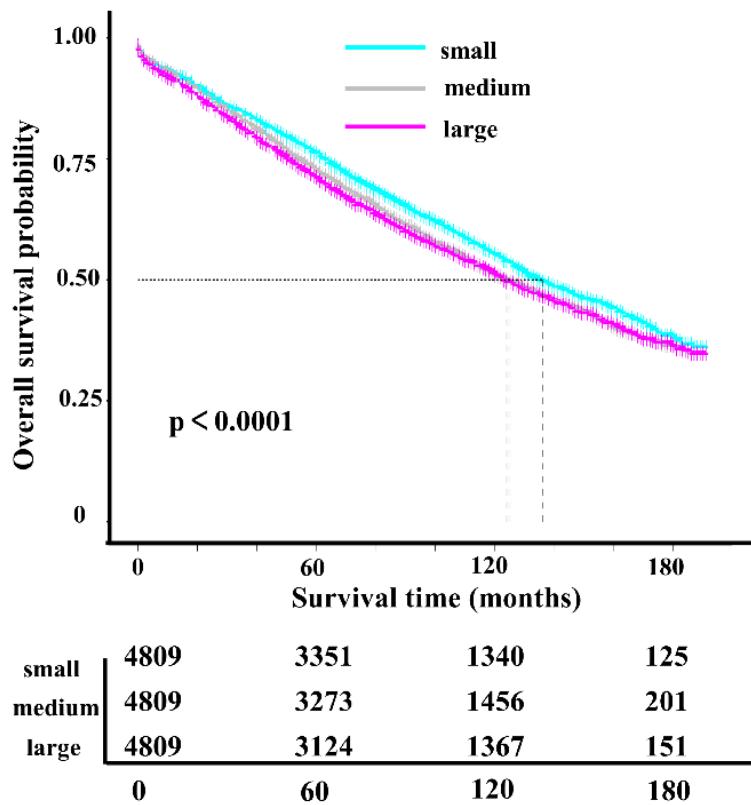


Figure S1. Kaplan-Meier analysis of OS between three tumor size groups from SEER database after PSM.

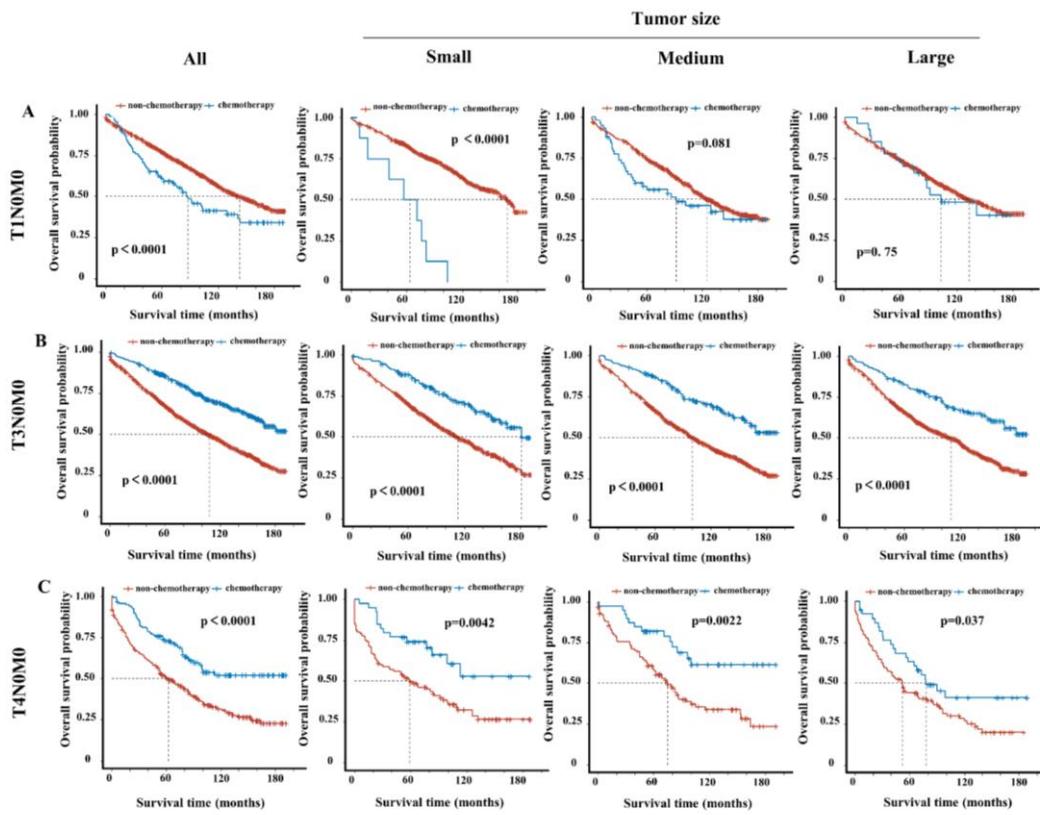


Figure S2. OS curve of chemotherapy group vs. non-chemotherapy group before PSM in (A) T1N0M0 patients, (B) T3N0M0 patients and (C) T4N0M0 patients among overall and three tumor size groups.

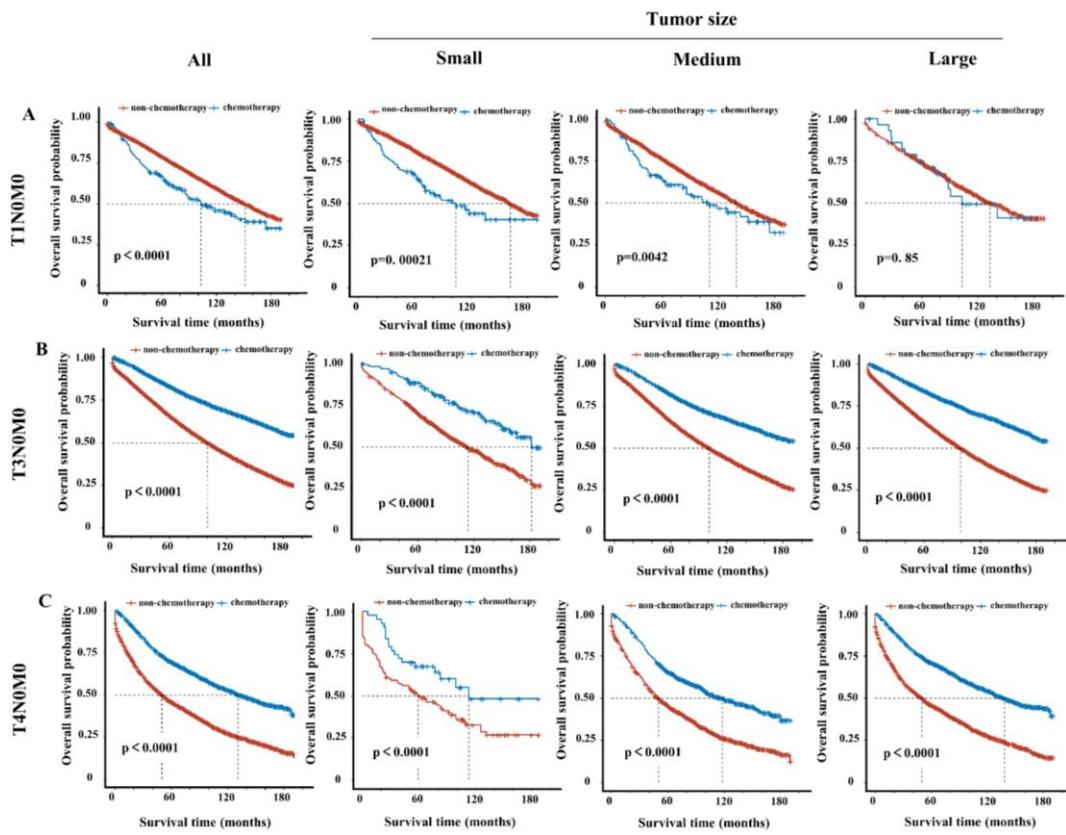


Figure S3. OS curve of chemotherapy group vs. non-chemotherapy group after PSM in (A) T1N0M0 patients, (B) T3N0M0 patients and (C) T4N0M0 patients among overall and three tumor size groups.

Table S1. Descriptive analysis of the validation cohort

Variables	cases(n=168)	percentage
Gender		
Male	83	49.41%
Female	85	50.60%
Age		
≤65	79	47.02%
> 65	89	52.98%
Histology		
Classical adenocarcinoma	146	86.91%
Other types	22	13.10%
Grade		
I/II	136	80.95%
III/IV	32	19.05%
Tumor size		
≤16mm	9	5.36%
16-49mm	88	52.38%
>49mm	71	42.26%
T stage		
T1	10	5.95%
T2	55	32.74%
T3	83	49.41%
T4	20	11.91%
Chemotherapy		
No/Unknown	62	36.91%
Yes	106	63.10%

Table S2. Subgroup analyses of OS between three tumor size groups

T1	161	139	133	1.254(1.193-1.318)	<0.001	1.316(1.181-1.465)	<0.001
T2	137	126	126	1.127(1.057-1.202)	<0.001	1.161(1.079-1.250)	<0.001
T3	125	110	110	1.113(1.027-1.205)	0.00872	1.113(1.028-1.206)	0.00839
T4	81	75	64	1.1 (0.8837-1.368)	0.394	1.02 (0.8216-1.267)	0.857
Primary site							
Right colon	137	110	105	1.334 (1.284-1.386)	<0.001	1.415 (1.361-1.471)	<0.001
Left colon	172	131	115	1.48 (1.410-1.554)	<0.001	1.692 (1.608-1.781)	<0.001

Abbreviations: OS, overall survival; CI, confidence interval; NA, not available.

Table S3. Subgroup analyses of OS between three tumor size groups after PSM

Variables	After PSM				
	ALL	T1N0M0	T2N0M0	T3N0M0	T4N0M0
Histology	0.508	0.514	0.504	0.507	0.52
Grade	0.511	0.516	0.507(p>0.05)	0.515(p>0.05)	0.547
Tumor size	0.519	0.543	0.517	0.512(p>0.05)	0.543(p>0.05)
T stage	0.533	-	-	-	-
Primary site	0.516	0.512	0.521	0.514	0.535