

Table S1 Univariate analysis of prognostic factors affecting BCFI and OS in full cohort

Characteristics	P value	
	BCFI	OS
Age (years) (<40 vs. 40–55 vs. >55)	0.338	0.193
Menstruation (pre- vs. post-menopausal)	0.148	0.555
Tumor size (T1a-b vs. T1c)	0.102	0.350
Histology (IDC vs. non-IDC)	0.920	0.275
Grade (I vs. II vs. III)	0.639	0.219
Ki67 (<14% vs. ≥14%)	0.964	0.708
Breast surgery type (lumpectomy vs. mastectomy)	0.581	0.383
Adjuvant chemotherapy (yes vs. no)	0.026*	0.060
Adjuvant radiotherapy (yes vs. no)	0.536	0.156

*, P<0.05. BCFI, breast cancer-free interval; OS, overall survival; IDC, invasive ductal carcinoma.

Table S2 Multivariate Cox proportional regression analysis of prognostic factors affecting BCFI and OS in full cohort

Characteristics	BCFI		OS	
	HR (95% CI)	P value	HR (95% CI)	P value
Age (years)		0.531		0.273
<40	1.00 (reference)		1.00 (reference)	
40–55	1.321 (0.584–2.986)	0.504	2.137 (0.252–18.089)	0.486
>55	0.945 (0.323–2.766)	0.918	6.234 (0.493–78.761)	0.486
Menstruation		0.551		0.279
Pre-menopausal	1.00 (reference)		1.00 (reference)	
Post-menopausal	0.810 (0.405–1.620)		0.428 (0.093–1.985)	
Tumor size		0.016*		0.123
T1a-bN0M0	1.00 (reference)		1.00 (reference)	
T1cN0M0	2.311 (1.167–4.578)		2.559 (0.775–8.452)	
Histology		0.185		0.430
IDC	1.00 (reference)		1.00 (reference)	
Non-IDC	0.533 (0.210–1.352)		0.388 (0.037–4.069)	
Grade		0.585		0.837
I	1.00 (reference)		1.00 (reference)	
II	0.932 (0.123–7.045)	0.946	4,520.849 (0–1.237E+76)	0.921
III	0.872 (0.114–6.659)	0.895	3,799.301 (0–1.041E+76)	0.923
Ki67		0.950		0.793
<14%	1.00 (reference)		1.00 (reference)	
≥14%	1.022 (0.524–1.990)		0.865 (0.294–2.552)	
Breast surgery type		0.141		0.694
Lumpectomy	1.00 (reference)		1.00 (reference)	
Mastectomy	0.563 (0.262–1.209)		0.753 (0.183–3.092)	
Adjuvant chemotherapy		0.011*		0.023*
Yes	1.00 (reference)		1.00 (reference)	
No	2.336 (1.217–4.484)		3.427 (1.186–9.899)	
Adjuvant radiotherapy		0.147		0.301
Yes	1.00 (reference)		1.00 (reference)	
No	1.812 (0.812–4.042)		2.319 (0.471–11.411)	

*, P<0.05. BCFI, breast cancer-free interval; OS, overall survival; HR, hazard ratio; CI, confidence interval; IDC, invasive ductal carcinoma.