Table 3 Univariate and multivariate Cox regression analyses for relapse-free survival (RFS) and overall survival (OS) of triple-negative cancer (TNC)

Clinicopathological features	Univariate analysis		Multivariate analysis		Univariate analysis		Multivariate analysis	
	RFS HR (95% CI)	p value	RFS HR (95% CI)	p value	OS HR (95% CI)	p value	OS HR (95% CI)	p value
Age (<50 vs. ≥50)	0.169 (0.051-0.568)	0.004*	0.164 (0.048-0.560)	0.004*	0.128 (0.037-0.437)	0.001*	0.095 (0.024-0.374)	0.001*
Tumor size (2 cm vs. >2 cm)	2.535 (0.809-7.936)	0.110			3.012 (0.962-9.431)	0.058		
Histological grade (I, II vs. III)	2.233 (0.488-10.22)	0.300			2.274 (0.497-10.411)	0.29		
Histological type (IBC-NST vs. other types)	0.770(0.413-1.438)	0.413			0.799(0.431-1.481)	0.476		
Lymph node status (absent vs. present)	1.683 (0.818-3.465)	0.158			1.820 (0.868-3.816)	0.113		
TILs (low vs. high)	0.449(0.121-1.660)	0.230			0.433(0.117-1.606)	0.211		
TS CD68 (low vs. high)	1.021 (0.984-1.059)	0.268			2.619 (0.783-8.756)	0.118		
TN CD68 (low vs. high)	0.969 (0.312-3.008)	0.957			0.938 (0.302-2.911)	0.912		
TS CD163 (low vs. high)	11.50 (1.481-89.29)	0.020*	9.059 (1.160-70.76)	0.036*	10.597(1.366-82.192)	0.024*	10.69 (1.313-87.18)	0.027*
TN CD163 (low vs. high)	4.952 (1.084-22.61)	0.039*	4.476 (1.028-22.08)	0.046*	4.735 (1.037-21.623)	0.045*	5.017 (1.065-23.64)	0.041*
TS CD163/CD68 (low vs. high)	2.972 (0.804-10.98)	0.102			2.829 (0.765-10.45)	0.119		
TN CD163/CD68 (low vs. high)	0.853 (0.275-2.646)	0.783			0.924 (0.298-2.868)	0.892		

Multivariate Cox regression analyses were performed for all potential variables that were significantly associated with survival in univariate analysis. *RFS* relapse-free survival and *OS* overall survival. *TNC* triple-negative cancer, *HR* hazard ratio, *CI* confidence interval, *IBC-NST* invasive breast carcinoma of no special type, *TILs* tumor-infiltrating lymphocytes, *TS* tumor stroma, *TN* tumor nest.

* *P* value is significant