

Supplementary

Table S1 Multivariate and collinearity analysis

Variables	Multivariate analysis		Coefficients	
	P value	Tolerance	VIF	
Age at diagnosis	<0.001	0.766	1.305	
Site		0.947	1.056	
STE				
STOS	0.752			
Other	0.018			
Grade		0.407	2.456	
I				
II	0.218			
III	0.211			
IV	0.197			
AJCC stage		0.362	2.764	
I				
II	0.750			
III	0.657			
IV	0.003			
Surgery		0.933	1.072	
No				
Yes	<0.001			
Radiation		0.876	1.141	
No/unknown				
Yes	<0.001			
Chemotherapy		0.853	1.172	
No/unknown				
Yes	0.027			
Tumor size (mm)		0.844	1.185	
≤50				
>50	0.020			
Extension		0.886	1.129	
Confined				
Localized	0.015			
Metastasis	0.011			
Total situ		0.991	1.009	
≤3				
>3	<0.001			
Marital		0.827	1.209	
Single				
Married	0.654			
Other	0.802			

VIF, variance inflation factor; STE, soft tissue of extremities; STOS, soft tissue of other sites; Total situ, total number of in situ/malignant tumors; AJCC stage, American Joint Committee on Cancer stage.

Table S2 HR values for forest plot

Variables	Subtype	β	HR	2.50%	97.50%	se(coef)	Z	P value	Marker
Age		0.051819	1.053185	1.0430	1.0634	0.004936	10.497	<0.00001	***
Site	STOS	0.016934	1.017078	0.7361	1.4053	0.164956	0.103	0.918235	
	Other	0.971267	2.64129	1.2817	5.4431	0.368924	2.633	0.008471	**
AJCC	II	0.629669	1.876988	1.2707	2.7726	0.199049	3.163	0.001559	**
	III	0.714826	2.04383	1.3635	3.0635	0.206503	3.462	0.000537	***
	IV	1.645821	5.185264	2.8792	9.3385	0.300171	5.483	4.18E-08	***
Surgery	Yes	-1.481361	0.227328	0.1199	0.4309	0.326266	-4.54	5.62E-06	***
Radiotherapy	Yes	-0.700651	0.496262	0.3656	0.6736	0.155869	-4.495	6.95E-06	***
Chemotherapy	Yes	0.481417	1.618366	1.0340	2.533	0.228569	2.106	0.035185	*
Tumor size	>50 mm	0.432498	1.541102	1.0867	2.1855	0.178243	2.426	0.015248	*
Extension	Localized	0.396825	1.487096	1.0607	2.0848	0.17238	2.302	0.021333	*
	Metastasis	0.448212	1.56551	1.0955	2.2371	0.18214	2.461	0.013863	*
Total situ	>3	1.697942	5.462694	2.8209	10.5787	0.3372	5.035	4.77E-07	***

Likelihood ratio test, $P < 2e-16$; Wald test, $P < 2e-16$; Score (log rank) test, $P < 2e-16$. *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$. STOS, soft tissue of other site; Total situ, total number of in situ/malignant tumors for patient; AJCC stage: American Joint Committee on Cancer stage.