

Table S1 Patient demographics and baseline characteristics stratified by SES risk, SEER-17 registry, 2000–2022

Characteristic	SES risk			P value
	Low (N=2,582)	Moderate (N=3,543)	High (N=2,176)	
Year of diagnosis, n (%)				<0.001 ¹
2000–2010	743 (28.8)	1,041 (29.4)	744 (34.2)	
2011–2022	1,839 (71.2)	2,502 (70.6)	1,432 (65.8)	
Age, years, mean ± SD	55±16	50±19	48±20	<0.001 ²
Sex, n (%)				<0.001 ¹
Male	1,526 (59.1)	1,953 (55.1)	1,151 (52.9)	
Female	1,056 (40.9)	1,590 (44.9)	1,025 (47.1)	
Race, n (%)				<0.001 ¹
White	2,156 (83.5)	2,906 (82.0)	1,796 (82.5)	
Black	123 (4.8)	330 (9.3)	292 (13.4)	
Others	303 (11.7)	307 (8.7)	88 (4.0)	
Histology, n (%)				<0.001 ¹
Osteosarcoma	517 (20.0)	842 (23.8)	597 (27.4)	
Ewing sarcoma	107 (4.1)	216 (6.1)	173 (8.0)	
Others	1,958 (75.8)	2,485 (70.1)	1,406 (64.6)	
Grade, n (%)				<0.001 ¹
Grade I–II	982 (38.0)	1,229 (34.7)	707 (32.5)	
Grade III–IV	778 (30.1)	1,124 (31.7)	748 (34.4)	
Unknown	822 (31.8)	1,190 (33.6)	721 (33.1)	
Stage, n (%)				0.190 ¹
Localized	1,229 (47.6)	1,636 (46.2)	961 (44.2)	
Regional	929 (36.0)	1,288 (36.4)	822 (37.8)	
Distant	424 (16.4)	619 (17.5)	393 (18.1)	
Primary surgery, n (%)				<0.001 ¹
Performed	2,258 (87.5)	3,015 (85.1)	1,791 (82.3)	
Not performed	324 (12.5)	528 (14.9)	385 (17.7)	
Chemotherapy, n (%)				<0.001 ¹
Yes	742 (28.7)	1,219 (34.4)	835 (38.4)	
No/unknown	1,840 (71.3)	2,324 (65.6)	1,341 (61.6)	
Radiotherapy, n (%)				0.401 ¹
Yes	763 (29.6)	991 (28.0)	625 (28.7)	
None/unknown	1,819 (70.4)	2,552 (72.0)	1,551 (71.3)	
Time from diagnosis to treatment (days), mean ± SD	34±45	37±51	39±54	<0.001 ²
Follow-up, months, mean ± SD	63±61	65±60	69±60	0.004 ²

¹, Pearson's chi-squared test; ², Welch two sample t-test. SD, standard deviation; USD, United States dollar; SES, socioeconomic status.

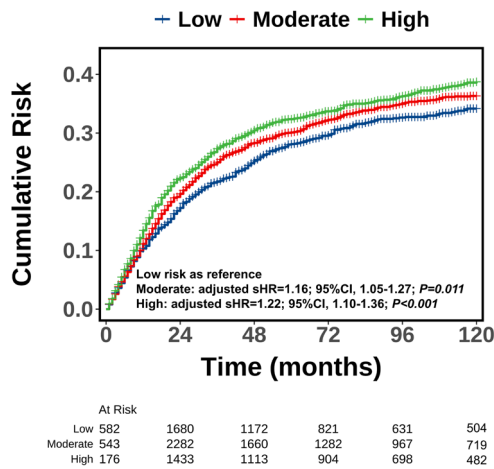


Figure S1 Fine-Gray competing risk curves for cancer-specific survival according to composite socioeconomic status (low, moderate, and high risk).

Table S2 Pairwise interaction analyses of marital status, household income, and residence across stage at diagnosis, treatment, and survival outcomes

Interaction	P for interaction
Stage at diagnosis	
Marital status × Median household income	0.722
Marital status × Residence	0.244
Median household income × Residence	0.083
Receipt surgery	
Marital status × Median household income	0.772
Marital status × Residence	0.467
Median household income × Residence	0.094
Overall survival	
Marital status × Median household income	0.808
Marital status × Residence	0.784
Median household income × Residence	0.154
Cancer-specific survival	
Marital status × Median household income	0.460
Marital status × Residence	0.976
Median household income × Residence	0.071