

## Marital status is associated with superior survival in patients with esophageal cancer: a surveillance, epidemiology, and end results study

### SUPPLEMENTARY MATERIALS

**Supplementary Table 1: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on different age stratifications**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>≤60</b>				
Non-married	1.17 (1.14-1.21)	<0.001	1.15 (1.11-1.19)	<0.001
Married	Reference		Reference	
<b>60-80</b>				
Non-married	1.17 (1.14-1.19)	<0.001	1.15 (1.12-1.18)	<0.001
Married	Reference		Reference	
<b>≥80</b>				
Non-married	1.17 (1.12-1.22)	<0.001	1.161 (1.10-1.22)	<0.001
Married	Reference		Reference	

Adjusting for gender, race/ethnicity, household income, histology, tumor site, SEER stages, therapy.

**Supplementary Table 2: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on different gender**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>Male</b>				
Non-married	1.18 (1.16-1.21)	<0.001	1.16 (1.14-1.19)	<0.001
Married	Reference		Reference	
<b>Female</b>				
Non-married	1.13 (1.09-1.17)	<0.001	1.13 (1.09-1.18)	<0.001
Married	Reference		Reference	

Adjusting for age, race/ethnicity, household income, histology, tumor site, SEER stages, therapy.

**Supplementary Table 3: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on race/ethnicity diversity**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>White</b>				
Non-married	1.17 (1.15-1.19)	<0.001	1.16 (1.13-1.19)	<0.001
Married	Reference		Reference	
<b>Black</b>				
Non-married	1.17 (1.12-1.23)	<0.001	1.13 (1.07-1.18)	<0.001
Married	Reference		Reference	
<b>Others/Unknown</b>				
Non-married	1.20 (1.12-1.30)	<0.001	1.22 (1.12-1.33)	<0.001
Married	Reference		Reference	

Adjusting for age, gender, household income, histology, tumor site, SEER stages, therapy.

**Supplementary Table 4: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on household income**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>Top quintile</b>				
Non-married	1.19 (1.14-1.23)	<0.001	1.17 (1.12-1.22)	<0.001
Married	Reference		Reference	
<b>2nd quintile</b>				
Non-married	1.19 (1.14-1.23)	<0.001	1.19 (1.13-1.24)	<0.001
Married	Reference		Reference	
<b>3rd quintile</b>				
Non-married	1.17 (1.12-1.21)	<0.001	1.14 (1.10-1.19)	<0.001
Married	Reference		Reference	
<b>4th quintile</b>				
Non-married	1.16 (1.12-1.21)	<0.001	1.16 (1.11-1.21)	<0.001
Married	Reference		Reference	
<b>Bottom quintile</b>				
Non-married	1.17 (1.13-1.22)	<0.001	1.15 (1.10-1.21)	<0.001
Married	Reference		Reference	

Adjusting for age, gender, race/ethnicity, histology, tumor site, SEER stages, therapy.

**Supplementary Table 5: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on different histotypes**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>ACE</b>				
Non-married	1.19 (1.16-1.22)	<0.001	1.18 (1.15-1.22)	<0.001
Married	Reference		Reference	
<b>SCC</b>				
Non-married	1.16 (1.13-1.19)	<0.001	1.14 (1.11-1.17)	<0.001
Married	Reference		Reference	

Adjusting for age, gender, race/ethnicity, household income, tumor site, SEER stages, therapy.

**Supplementary Table 6: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on different tumor sites**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>Upper third</b>				
Non-married	1.12 (1.06-1.17)	<0.001	1.11 (1.04-1.18)	0.001
Married	Reference		Reference	
<b>Middle third</b>				
Non-married	1.17 (1.13-1.21)	<0.001	1.15 (1.11-1.20)	<0.001
Married	Reference		Reference	
<b>Lower third</b>				
Non-married	1.18 (1.16-1.21)	<0.001	1.17 (1.14-1.20)	<0.001
Married	Reference		Reference	
<b>Overlapping</b>				
Non-married	1.14 (1.05-1.23)	0.001	1.106 (1.02-1.21)	0.021
Married	Reference		Reference	

Adjusting for age, gender, race/ethnicity, household income, histology, SEER stages, therapy.

**Supplementary Table 7: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on different cancer stages**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>In situ</b>				
Non-married	1.30 (1.06-1.59)	<b>0.011</b>	1.24 (0.88-1.73)	0.222
Married	Reference		Reference	
<b>Localized</b>				
Non-married	1.19(1.15-1.24)	<b>&lt;0.001</b>	1.17 (1.12-1.22)	<b>&lt;0.001</b>
Married	Reference		Reference	
<b>Regional</b>				
Non-married	1.15 (1.11-1.18)	<b>&lt;0.001</b>	1.12 (1.08-1.17)	<b>&lt;0.001</b>
Married	Reference		Reference	
<b>Distant</b>				
Non-married	1.17 (1.13-1.20)	<b>&lt;0.001</b>	1.16 (1.12-1.20)	<b>&lt;0.001</b>
Married	Reference		Reference	

Adjusting for age, gender, race/ethnicity, household income, histology, tumor site, therapy.

**Supplementary Table 8: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on different therapies**

Characteristics	Overall Survival HR (95% CI)	P value	Cancer-specific Survival HR (95% CI)	P value
<b>Radiation and surgery</b>				
Non-married	1.11 (1.05-1.17)	<b>&lt;0.001</b>	1.09(1.03-1.16)	<b>0.004</b>
Married	Reference		Reference	
<b>Radiation</b>				
Non-married	1.19 (1.13-1.25)	<b>&lt;0.001</b>	1.12 (1.05-1.19)	<b>0.001</b>
Married	Reference		Reference	
<b>Surgery</b>				
Non-married	1.13 (1.10-1.16)	<b>&lt;0.001</b>	1.11 (1.08-1.14)	<b>&lt;0.001</b>
Married	Reference		Reference	
<b>None</b>				
Non-married	1.21 (1.17-1.24)	<b>&lt;0.001</b>	1.22 (1.18-1.27)	<b>&lt;0.001</b>
Married	Reference		Reference	

Adjusting for age, gender, race/ethnicity, household income, histology, tumor site, and SEER stage.

**Supplementary Table 9: Multivariate analysis of marital status on overall and esophageal cancer-caused specific survival based on insurance**

<b>Characteristics</b>	<b>Overall Survival HR (95% CI)</b>	<b>P value</b>	<b>Cancer-specific Survival HR (95% CI)</b>	<b>P value</b>
<b>Insured</b>				
Non-married	1.19 (1.15-1.24)	<b>&lt;0.001</b>	1.19 (1.14-1.24)	<b>&lt;0.001</b>
Married	Reference		Reference	
<b>Uninsured</b>				
Non-married	1.08 (0.99-1.17)	0.076	1.13 (1.03-1.25)	<b>0.012</b>
Married	Reference		Reference	

Adjusting for age, gender, race/ethnicity, household income, histology, tumor site, SEER stage and therapy.