

Supplemental online content for:

Geographic Variations of Potentially Curative Treatments for Hepatocellular Carcinoma in the United States: A SEER-Medicare Study

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eTable 1: Adjusted HRs of Mortality After Excluding Patients With PO Box Addresses

eTable 2: Multivariable-Adjusted Associations With Survival

eTable 1. Adjusted HRs of Mortality After Excluding Patients With PO Box Addresses (N=6,623)

	Adjusted HR (95% CI)	P Value
HRR level		
First quartile	Ref	
Second quartile	0.85 (0.78–0.92)	<.01
Third quartile	0.85 (0.79–0.92)	<.01
Fourth quartile	0.78 (0.72–0.85)	<.01
Age, y		
66–69	Ref	
70–74	1.10 (1.02–1.19)	.01
75–79	1.21 (1.12–1.31)	<.01
80–84	1.34 (1.23–1.46)	<.01
≥85	1.56 (1.41–1.72)	<.01
Race		
White	Ref	
Black	1.17 (1.06–1.29)	<.01
Other	0.82 (0.76–0.88)	<.01
Marital status		
Married	Ref	
Unmarried	1.15 (1.09–1.22)	<.01
Other	1.06 (0.93–1.22)	.38
Cancer stage		
I	Ref	
II	1.05 (0.96–1.14)	.30
III	1.95 (1.81–2.10)	<.01
IV	3.46 (3.18–3.76)	<.01
Unknown	2.31 (2.15–2.49)	<.01
Elixhauser comorbidity index		
0	Ref	
1–2	1.01 (0.95–1.08)	.74
≥3	1.28 (1.19–1.37)	<.01
Hepatitis B virus infection ^a	0.68 (0.61–0.77)	<.01
Hepatitis C virus infection ^a	0.89 (0.83–0.95)	<.01
Alcohol-related liver disease ^a	1.17 (1.06–1.29)	<.01
Cirrhosis ^a	0.89 (0.84–0.95)	<.01
Living in metropolitan counties ^b	0.98 (0.90–1.06)	.57

Abbreviations: HCC, hepatocellular carcinoma; HR, hazard ratio; HRR, hospital referral region.

^aIdentified in 1 inpatient or 1 outpatient claim in the 12 months before HCC diagnosis.

^bClassification of “metropolitan” and “nonmetropolitan” was based on 2003 rural/urban continuum codes from the Economic Research Service, US Department of Agriculture.

eTable 2. Multivariable-Adjusted Associations With Survival

	HR (95% CI)	P Value
Population level		
First quartile	Ref	
Second quartile	0.93 (0.86–1.00)	.05
Third quartile	0.92 (0.86–0.99)	.03
Fourth quartile	0.85 (0.79–0.92)	<.01
Age, y		
66–69	Ref	
70–74	1.11 (1.03–1.19)	<.01
75–79	1.21 (1.12–1.30)	<.01
80–84	1.32 (1.21–1.44)	<.01
≥85	1.55 (1.40–1.71)	<.01
Race		
White	Ref	
Black	1.16 (1.05–1.27)	<.01
Other	0.82 (0.76–0.88)	<.01
Marital status		
Married	Ref	
Unmarried	1.15 (1.09–1.21)	<.01
Other	1.06 (0.92–1.21)	.42
Cancer stage		
I	Ref	
II	1.04 (0.95–1.13)	.42
III	1.93 (1.79–2.08)	<.01
IV	3.44 (3.17–3.74)	<.01
Unknown	2.31 (2.15–2.49)	<.01
Elixhauser comorbidity index		
0	Ref	
1–2	1.01 (0.95–1.07)	.64
≥3	1.28 (1.20–1.38)	<.01
Hepatitis B virus infection ^a	0.67 (0.60–0.76)	<.01
Hepatitis C virus infection ^a	0.88 (0.82–0.94)	<.01
Alcohol-related liver disease ^a	1.16 (1.05–1.27)	<.01
Cirrhosis ^a	0.90 (0.84–0.95)	<.01
Living in metropolitan counties ^a	0.96 (0.88–1.03)	.25

Abbreviations: HCC, hepatocellular carcinoma; HR, hazard ratio.

^aIdentified in 1 inpatient or 1 outpatient claim in the 12 months before HCC diagnosis.

^bClassification of “metropolitan” and “nonmetropolitan” was based on 2003 rural/urban continuum codes from the Economic Research Service, US Department of Agriculture.