ICD-10 code	ICD-code name			
C22.0	Liver cell carcinoma - Malignant neoplasms			
К70.0	Alcoholic fatty liver			
K70.1	Alcoholic hepatitis			
К70.2	Alcoholic fibrosis and sclerosis of liver			
К70.3	Alcoholic cirrhosis of liver			
К70.4	Alcoholic hepatic failure			
К70.9	Alcoholic liver disease, unspecified			
K71.7	Toxic liver disease with fibrosis and cirrhosis of liver			
К73.0	Chronic persistent hepatitis, not elsewhere specified			
K73.1	Chronic lobular hepatitis, not elsewhere classified			
К73.2	Chronic active hepatitis, not elsewhere classified			
К73.8	Other chronic hepatitis, not elsewhere classified			
К73.9	Chronic hepatitis, unspecified			
К74.0	Hepatic fibrosis			
K74.1	Hepatic sclerosis			
К74.2	Hepatic fibrosis with hepatic sclerosis			
K74.3	Primary biliary cirrhosis			
К74.4	Secondary biliary cirrhosis			
K74.5	Biliary cirrhosis, unspecified			
K74.6	Other and unspecified cirrhosis of liver			
K76.6	Portal hypertension			
K76.7	Hepatorenal syndrome			

Supplementary Table 1: List of ICD-19 codes included to identify patients with liver disease-related mortality

Supplementary Table 2: Beta coefficients for all covariates in linear regression models evaluating factors associated with county-level age-adjusted liver disease-related mortality rates

Variable	Beta coefficient	P-value	Unadjusted R ²		
County-level racial/ethnic composition					
% White Hispanic	0.25 (0.21, 0.39)	<0.001	0.08		
% Black Hispanic	-1.05 (-1.99, -0.10)	0.03	0.002		
% Black non-Hispanic	-0.07 (-0.11, -0.04)	<0.001	0.008		
% Asian	-0.35 (-0.48, -0.22)	<0.001	0.01		
% American Indian	1.07 (1.01, 1.12)	<0.001	0.40		
% adults living below poverty level	0.83 (0.73, 0.93)	<0.001	0.11		
% uninsured	0.76 (0.68, 0.83)	<0.001	0.17		
Miles to closest liver transplant center*	0.31 (0.27, 0.36)	<0.001	0.08		
Rural/urban status			0.05		
Large metropolitan	Reference				
Small/medium metropolitan	3.63 (2.30, 4.98)	<0.001			
Rural	6.39 (5.17, 7.62)	<0.001			
Number of board-certified gastroenterologists	-0.04 (-0.06, -0.02)	<0.001	0.008		
% with diabetes	1.77 (1.56, 2.01)	<0.001	0.09		
% with obesity	0.52 (0.41, 0.63)	<0.001	0.04		
% with heavy alcohol use	0.20 (-0.009, 0.40)	0.06	0.002		
Listings per 100 deaths	-0.11 (-0.13, -0.10)	<0.001	0.09		

* Per 10-mile increments