

## Supplementary Online Content

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**eTable 1.** Percentage of US Population Living in Zip Code Tabulation Area (ZCTA) With Community-Based Specialty Mental Health (MH) Treatment Resources

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**eTable 3.** Generalized Ordered Logistic Regression Results Examining the Association Between Zip Code Tabulation Area (ZCTA) Characteristics and the Availability of Office-Based Practices of Mental Health (MH) Specialist Providers

This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable 1.** Percentage of US Population Living in Zip Code Tabulation Area (ZCTA) With Community-Based Specialty Mental Health (MH) Treatment Resources

	Any MH treatment facility providing outpatient care, %	Any office-based practice: MH specialist physician(s), %	Any office-based practice: MH professional–nonphysician(s), %	Any community-based MH treatment resource, %
<b>% of population living in ZCTA with ≥ 1 MH treatment resource</b>	36.9	40.1	55.2	70.3
% of population living in ZCTAs (classified by median household income) with ≥ 1 MH treatment resource in ZCTA				
First quartile (mean = \$30,534)	46.6	29.3	42.0	65.1
Second quartile (mean = \$42,999)	45.2	34.5	50.7	67.5
Third quartile (mean = \$53,542)	37.1	38.6	54.1	68.2
Fourth quartile (mean = \$81,207)	26.5	50.4	65.9	76.3
% of population living in ZCTAs (classified as urban/suburban or rural), with ≥ 1 MH treatment resource in ZCTA				
% of Residents living in Rural areas	32.9	6.9	15.5	40.1
% of Residents living in Urban/Suburban areas	37.1	41.7	57.1	71.7
<b>% of Population living in ZCTA with ≥ 1 MH treatment resource or within 10 Miles of ZCTA with ≥ 1 MH treatment resource<sup>a</sup></b>	91.6	84.6	90.3	95.0
% of population living in ZCTAs (classified by median household income) with ≥ 1 MH treatment resource in ZCTA or within 10 miles of a ZCTA with ≥ 1 MH treatment resource <sup>a</sup>				
First quartile (mean = \$30,534)	90.4	77.5	84.5	94.9
Second quartile (mean = \$42,999)	91.1	78.5	87.5	95.5
Third quartile (mean = \$53,542)	91.9	85.8	92.6	96.0
Fourth quartile (mean = \$81,207)	92.2	91.5	93.5	94.2
% of population living in ZCTAs (classified as urban/suburban or rural), with ≥ 1 MH treatment resource in ZCTA or within 10 miles of a ZCTA with ≥ 1 MH treatment resource <sup>a</sup>				
% of Residents living in Rural areas	73.5	28.3	49.2	82.7
% of Residents living in Urban/Suburban areas	92.4	87.3	92.2	95.6

Note: <sup>a</sup>To calculate these percentages, we created a 10-mile buffer around each ZCTA's centroid to identify those who lived in a ZCTA with a MH treatment resource or close to another ZCTA with a MH treatment resource that intersected this 10-mile buffer.

**eTable 2.** Generalized Ordered Logistic Regression Results Examining the Association Between Zip Code Tabulation Area (ZCTA) Characteristics and the Availability of MH Treatment Facilities Providing Outpatient Care or Community-Based Specialty Mental Health (MH) Treatment Resources

	MH treatment facility providing outpatient care in ZCTA <sup>†</sup>				Community-based MH Treatment Resource <sup>‡</sup>			
	1 or more (versus 0)		2 or more (versus <2)		1 or more (versus 0)		2 or more (versus <2)	
	OR	[95% CI]	OR	[95% CI]	OR	[95% CI]	OR	[95% CI]
Median household income								
First quartile	Ref		Ref		Ref		Ref	
Second quartile	0.91	[0.81, 1.02]	0.80	[0.67, 0.95]	0.95	[0.84, 1.06]	0.93	[0.82, 1.07]
Third quartile	0.63	[0.55, 0.72]	0.54	[0.44, 0.67]	0.97	[0.85, 1.10]	1.04	[0.90, 1.21]
Fourth quartile	0.43	[0.37, 0.51]	0.35	[0.27, 0.45]	1.73	[1.49, 2.01]	2.38	[2.00, 2.83]
Rural/urban area								
Rural	Ref		Ref		Ref		Ref	
Urban/suburban	0.38	[0.33, 0.43]	0.66	[0.51, 0.86]	0.54	[0.48, 0.61]	0.72	[0.61, 0.86]
% of residents that are black								
Less than 1	Ref		Ref		Ref		Ref	
1–9	0.99	[0.88, 1.11]	1.30	[1.06, 1.60]	1.13	[1.03, 1.24]	1.09	[0.97, 1.22]
10–24	0.86	[0.71, 1.04]	1.07	[0.80, 1.44]	0.91	[0.76, 1.08]	0.74	[0.61, 0.90]
25–49	0.64	[0.50, 0.83]	0.89	[0.62, 1.28]	0.53	[0.41, 0.68]	0.46	[0.35, 0.61]
50 or more	0.34	[0.25, 0.47]	0.25	[0.15, 0.41]	0.25	[0.18, 0.34]	0.11	[0.08, 0.16]
% of residents that are Hispanic								
Less than 1	Ref		Ref		Ref		Ref	
1–9	1.22	[1.06, 1.41]	1.35	[1.02, 1.79]	1.32	[1.17, 1.48]	1.61	[1.35, 1.92]
10–24	1.23	[1.00, 1.51]	1.52	[1.07, 2.17]	0.94	[0.78, 1.14]	1.20	[0.95, 1.52]
25–49	1.22	[0.93, 1.60]	1.31	[0.86, 2.00]	0.78	[0.60, 1.01]	1.13	[0.84, 1.52]
50 or more	0.62	[0.42, 0.90]	0.71	[0.38, 1.31]	0.50	[0.36, 0.71]	0.66	[0.44, 0.98]
% of residents under	0.88	[0.81,	0.68	[0.59,	0.64	[0.59,	0.54	[0.49,

age 20 <sup>a</sup>		0.96]		0.78]		0.70]		0.59]
% of residents over age 64 <sup>a</sup>	1.53	[1.39, 1.68]	1.50	[1.28, 1.77]	1.40	[1.29, 1.52]	1.48	[1.34, 1.64]
% of residents who are female <sup>a</sup>	1.02	[0.94, 1.10]	1.15	[0.99, 1.34]	1.31	[1.23, 1.41]	1.48	[1.35, 1.63]
% of residents who are married <sup>a</sup>	0.51	[0.47, 0.55]	0.44	[0.38, 0.50]	0.52	[0.48, 0.56]	0.43	[0.39, 0.47]
Total population (logged)	4.30	[4.08, 4.54]	5.23	[4.75, 5.75]	5.47	[5.22, 5.74]	6.86	[6.46, 7.28]
Land area <sup>a</sup>	1.30	[1.24, 1.35]	1.22	[1.13, 1.33]	1.16	[1.11, 1.21]	1.03	[0.97, 1.10]

Notes: N=31,836 ZCTAs; Results come from generalized ordered logistic regression models that included all measures in the table as well as state indicators. <sup>†</sup>The percentage of ZCTAs with 1 MH treatment facility is 10.0%, and the percentage with 2+ MH treatment facilities is 4.9%. <sup>‡</sup>The percentage of ZCTAs with 1 community-based MH treatment resources is 10.7%, and the percentage with 2+ community-based MH treatment resources is 18.6%. <sup>a</sup>Continuous measure was standardized.

**eTable 3.** Generalized Ordered Logistic Regression Results Examining the Association Between Zip Code Tabulation Area (ZCTA) Characteristics and the Availability of Office-Based Practices of Mental Health (MH) Specialist Providers

	Office-based practice of MH specialist physician(s) in ZCTA <sup>†</sup>				Office-based practice of MH professional–nonphysician(s) in ZCTA <sup>‡</sup>			
	1 or more (versus 0)		2 or more (versus <2)		1 or more (versus 0)		2 or more (versus <2)	
	OR	[95% CI]	OR	[95% CI]	OR	[95% CI]	OR	[95% CI]
Median household income								
First quartile	Ref		Ref		Ref		Ref	
Second quartile	1.10	[0.96, 1.28]	1.12	[0.92, 1.37]	1.03	[0.91, 1.17]	0.84	[0.72, 0.99]
Third quartile	1.36	[1.16, 1.59]	1.53	[1.23, 1.89]	1.30	[1.13, 1.50]	1.34	[1.13, 1.60]
Fourth quartile	3.02	[2.52, 3.63]	4.65	[3.65, 5.94]	2.75	[2.34, 3.24]	3.28	[2.69, 4.01]
Rural/urban area								
Rural	Ref		Ref		Ref		Ref	
Urban/suburban	1.05	[0.84, 1.31]	1.88	[1.04, 3.41]	1.01	[0.86, 1.18]	1.24	[0.93, 1.64]
% of residents that are black								
Less than 1	Ref		Ref		Ref		Ref	
1–9	1.14	[1.01, 1.30]	1.10	[0.92, 1.31]	1.13	[1.02, 1.26]	1.12	[0.97, 1.29]
10–24	0.82	[0.66, 1.01]	0.77	[0.58, 1.01]	0.83	[0.68, 1.00]	0.71	[0.57, 0.90]
25–49	0.44	[0.33, 0.59]	0.36	[0.24, 0.53]	0.45	[0.35, 0.59]	0.35	[0.25, 0.48]
50 or more	0.17	[0.11, 0.25]	0.04	[0.02, 0.09]	0.14	[0.10, 0.20]	0.09	[0.05, 0.14]
% of residents that are Hispanic								
Less than 1	Ref		Ref		Ref		Ref	
1–9	1.57	[1.29, 1.90]	2.86	[1.80, 4.55]	1.53	[1.32, 1.77]	2.07	[1.58, 2.72]
10–24	1.06	[0.82, 1.37]	2.18	[1.31, 3.60]	0.93	[0.75, 1.15]	1.27	[0.92, 1.75]
25–49	0.92	[0.67, 1.26]	1.72	[0.98, 3.01]	0.67	[0.51, 0.88]	0.83	[0.56, 1.21]
50 or more	0.67	[0.44, 1.02]	1.50	[0.79, 2.86]	0.66	[0.46, 0.95]	0.77	[0.48, 1.23]
% of residents under age 20 <sup>a</sup>	0.57	[0.51, 0.63]	0.51	[0.45, 0.59]	0.58	[0.53, 0.63]	0.52	[0.46, 0.58]

% of residents over age 64 <sup>a</sup>	1.37	[1.24, 1.51]	1.38	[1.21, 1.57]	1.22	[1.11, 1.34]	1.29	[1.15, 1.44]
% of residents who are female <sup>a</sup>	1.45	[1.31, 1.60]	1.67	[1.43, 1.95]	1.41	[1.30, 1.53]	1.56	[1.37, 1.76]
% of residents who are married <sup>a</sup>	0.54	[0.49, 0.60]	0.42	[0.37, 0.48]	0.55	[0.51, 0.60]	0.45	[0.41, 0.50]
Total population (logged)	4.38	[4.13, 4.64]	4.97	[4.56, 5.42]	4.58	[4.35, 4.81]	5.72	[5.34, 6.13]
Land area <sup>a</sup>	0.70	[0.62, 0.79]	0.58	[0.47, 0.71]	0.97	[0.91, 1.03]	0.86	[0.78, 0.94]

Notes: N=31,836 ZCTAs; Results come from generalized ordered logistic regression models that included all measures in the table as well as state indicators. <sup>†</sup>The percentage of ZCTAs with 1 office-based practice of MH specialist physician(s) is 7.2%, and the percentage with 2+ office-based practices of MH specialist physician(s) is 6.7%. <sup>‡</sup>The percentage of ZCTAs with 1 office-based practice of nonphysician MH professional(s) is 9.1%, and the percentage with 2+ office-based nonphysician MH professional(s) is 11.8%. <sup>a</sup>Continuous measure was standardized.