

Appendix
Opioid Use Disorder Treatment Facilities With Programs for Special Populations
Hadland et al.

Appendix Table 1. Counties With Facilities That Provide or Allow Medications and Offer Services in Spanish (*n*=3,142)

Characteristic	Percentage of counties with services in Spanish, %
U.S. Census Bureau division	
New England	47.8
Middle Atlantic	48.0
East North Central	17.2
West North Central	5.3
South Atlantic	20.4
East South Central	5.2
West South Central	12.6
Mountain	32.7
Pacific	49.7
Rural/Urban classification	
Large central metro	94.1
Large fringe metro	34.5
Medium metro	38.7
Small metro	21.2
Micropolitan	16.2
Noncore	4.7
Medically underserved area	7.6

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Appendix Table 2. County-level Characteristics Associated With Availability of Opioid Use Disorder Treatment Facilities That Provide or Allow Medications, Univariate Analyses ($n=3,142$)

Characteristic	Any program	Programs for veterans	Programs for pregnant and postpartum women	Programs that accept adolescents
	Unadjusted RR (95% CI) ^a	Unadjusted RR (95% CI) ^a	Unadjusted RR (95% CI) ^a	Unadjusted RR (95% CI) ^a
% male	0.90 (0.83, 0.97)**	0.92 (0.82, 1.03)	0.86 (0.79, 0.94)***	0.95 (0.86, 1.05)
Age distribution, years				
% age 0–19	ref	ref	ref	ref
% age 20–24	0.84 (0.76, 0.94)**	0.83 (0.67, 1.03)	0.88 (0.75, 1.02)	0.95 (0.93, 1.02)
% age 25–44	1.02 (1.00, 1.05)	1.08 (1.05, 1.11)***	1.01 (0.99, 1.03)	0.98 (0.94, 1.03)
% age 45–64	1.04 (0.99, 1.09)	1.05 (0.98, 1.12)	1.03 (0.98, 1.08)	1.02 (0.97, 1.07)
% age ≥65	1.02 (0.99, 1.04)	0.98 (0.96, 1.01)	1.04 (1.01, 1.07)**	1.03 (0.99, 1.07)
% non-Hispanic white	1.01 (1.00, 1.01)**	0.99 (0.99, 1.00)**	1.01 (1.00, 1.01)	1.01 (1.00, 1.02)
% unemployed	1.01 (1.00, 1.02)	1.02 (1.00, 1.04)	1.02 (1.00, 1.04)*	1.01 (0.99, 1.02)
% living in poverty	1.01 (1.00, 1.03)	1.05 (1.03, 1.06)***	1.03 (1.01, 1.04)**	1.01 (0.99, 1.03)
% uninsured	0.97 (0.95, 0.99)**	1.01 (0.97, 1.04)	0.97 (0.94, 1.00)*	0.97 (0.95, 0.99)**
% with public health insurance	1.02 (1.01, 1.03)**	1.02 (1.00, 1.04)*	1.04 (1.02, 1.06)***	0.97 (0.95, 0.99)**
U.S. Census Bureau division				
New England	ref	ref	ref	ref
Middle Atlantic	0.61 (0.50, 0.73)***	0.84 (0.58, 1.20)	0.47 (0.37, 0.60)***	1.02 (0.76, 1.37)
East North Central	0.61 (0.43, 0.61)***	0.46 (0.35, 0.62)***	0.37 (0.29, 0.46)***	0.69 (0.52, 0.92)*
West North Central	0.72 (0.53, 0.97)*	0.57 (0.43, 0.75)***	0.53 (0.40, 0.71)***	1.29 (0.80, 2.06)
South Atlantic	0.45 (0.32, 0.62)***	0.43 (0.28, 0.65)***	0.41 (0.30, 0.57)***	0.57 (0.38, 0.85)**
East South Central	0.54 (0.35, 0.83)**	0.49 (0.27, 0.86)*	0.45 (0.30, 0.68)***	0.84 (0.38, 0.85)
West South Central	0.26 (0.18, 0.37)***	0.27 (0.16, 0.46)***	0.20 (0.13, 0.31)***	0.38 (0.24, 0.59)***
Mountain	0.60 (0.39, 0.91)*	0.73 (0.51, 1.06)	0.46 (0.30, 0.70)***	0.85 (0.59, 1.22)
Pacific	0.43 (0.30, 0.63)***	0.59 (0.43, 0.82)**	0.38 (0.29, 0.48)***	0.40 (0.19, 0.82)*
Rural/Urban classification				
Large central metro	ref	ref	ref	ref
Large fringe metro	0.92 (0.75, 1.12)	0.57 (0.43, 0.76)***	0.86 (0.72, 1.02)	1.25 (1.05, 1.49)*

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Medium metro	1.13 (0.95, 1.34)	0.72 (0.57, 0.93)*	1.27(1.07, 1.55)**	1.41 (1.18, 1.68)***
Small metro	1.25 (1.02, 1.53)*	0.73 (0.56, 0.95)*	1.55 (1.25, 1.93)***	1.82 (1.39, 2.45)***
Micropolitan	1.44 (1.14, 1.81)**	0.83 (0.63, 1.08)	1.70 (1.40, 2.07)***	2.36 (1.81, 3.07)***
Noncore	1.38 (0.93, 2.05)	0.71 (0.54, 0.94)*	1.77 (1.31, 2.39)***	2.52 (1.82, 3.49)***
Medically underserved area	1.03 (0.87, 1.23)	0.87 (0.68, 1.12)	1.00 (0.79, 1.27)	1.07 (0.67, 1.70)
Opioid prescriptions rate per 100 ^b	1.00 (1.00, 1.01)	1.00 (0.99,1.00)	1.01 (1.01, 1.01)***	1.01 (1.00, 1.01)
Opioid overdose rate per 100,000 ^c	1.00 (1.00, 1.00)*	1.00 (1.00, 1.00)*	1.01 (1.01, 1.01)***	1.01 (0.99, 1.02)

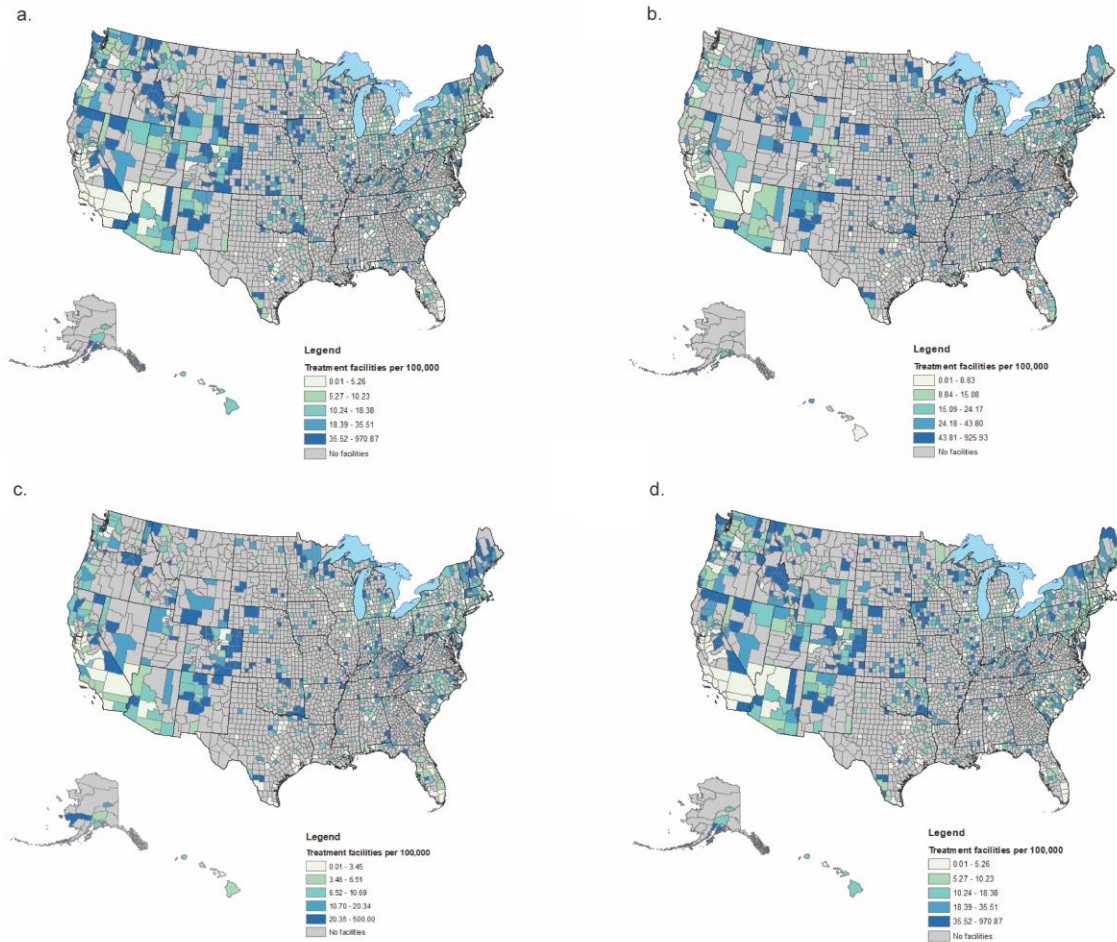
^aBoldface indicates statistical significance (* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$). Analyses are adjusted for all variables listed in the table.

^b180 counties excluded from analyses due to missing data.

^cMean rate for the period 2014–2016.

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Appendix Figure 1. Per capita availability of opioid use disorder treatment facilities that provide or allow buprenorphine, naltrexone, or methadone. (A) Any facility^a; (B) Facilities offering programs for veterans^b; (C) Facilities offering programs for pregnant and postpartum women^c; (D) Facilities offering programs for adolescents or accepting adolescent into other programs.^d



^aPer 100,000 individuals aged ≥ 11 years.

^bPer 100,000 veterans.

^cPer 100,000 women aged 15–44 years

^dPer 100,000 individuals aged 11–17 years.