

Table S1: ACA expansion and non-expansion states	
Expansion States	Non-Expansion States
AZ, AR, CA, CO, CT, DE, HI, IL, IA, KY, MD, MA, MI, MN, NH, NV, NJ, NM, NY, ND, OH, OR, RI, VT, WA, WV, DC	AL, AK, FL, GA, IN, ID, KS, LA, ME, MS, MO, MT, NE, NC, OK, PA, SC, SD, TN, TX, UT, VA, WI, WY

Table S2. Characteristics of White, Black, and Hispanic low-income adults with selected substance use disorders in states that did and did not expand Medicaid eligibility in 2014 or earlier									
	White			Black			Hispanic		
	Expansion States	Non-Expansion States	P value	Expansion States	Non-Expansion States	P value	Expansion States	Non-Expansion States	P value
Characteristics	% (SE)	% (SE)		% (SE)	% (SE)		% (SE)	% (SE)	
<b>Age range, yrs</b>			0.950			0.842			0.819
18-24	40.29 (1.01)	39.84 (1.24)		27.39 (1.32)	26.41 (1.28)		36.52 (1.42)	34.82 (1.99)	
25-34	23.49 (0.91)	23.01 (0.95)		25.76 (1.61)	25.43 (1.57)		28.42 (1.55)	28.84 (1.95)	
35-44	14.14 (0.75)	14.15 (0.86)		17.37 (1.48)	16.17 (1.30)		20.51 (1.60)	19.34 (2.15)	
45-64	22.08 (1.11)	23.01 (1.25)		29.47 (2.29)	31.99 (2.06)		14.54 (1.68)	17.00 (2.55)	
<b>Sex</b>			0.002			0.626			0.570
Male	57.93 (1.02)	62.32 (1.02)		60.68 (1.66)	61.84 (1.64)		66.73 (1.64)	65.28 (2.04)	
Female	42.07 (1.02)	37.68 (1.02)		39.32 (1.66)	38.16 (1.64)		33.27 (1.64)	34.72 (2.04)	
<b>Marital status</b>			0.002			0.395			0.008
Married	12.52 (0.71)	15.43 (0.93)		12.10 (1.46)	14.43 (1.49)		24.80 (1.80)	31.28 (2.44)	
Sep, Div, Wid	21.32 (1.01)	24.03 (1.20)		18.34 (1.81)	15.94 (1.47)		10.95 (1.34)	14.21 (1.77)	
Never married	66.16 (1.10)	60.53 (1.27)		69.56 (2.11)	69.63 (1.83)		64.24 (1.93)	54.51 (2.41)	
<b>Education level</b>			0.014			0.002			0.814
Less than high schl	20.76 (0.90)	24.56 (1.09)		32.17 (1.84)	39.00 (1.80)		42.21 (1.89)	43.37 (2.44)	
High schl graduate	29.35 (0.93)	30.01 (1.09)		35.80 (1.94)	36.55 (1.80)		29.64 (1.55)	28.66 (1.86)	
Some college	36.63 (1.02)	34.35 (1.14)		26.18 (1.82)	21.59 (1.40)		23.03 (1.39)	22.01 (1.89)	
College graduate	13.27 (0.67)	11.08 (0.68)		5.86 (0.92)	2.87 (0.48)		5.13 (0.68)	5.97 (0.90)	
<b>Employed</b>	52.32 (1.00)	52.88 (1.13)	0.710	40.46 (1.78)	43.38 (1.74)	0.235	60.24 (1.76)	65.21 (2.53)	0.112
<b>Health status</b>			0.857			0.480			0.261
Excellent	13.83 (0.63)	13.65 (0.68)		14.19 (1.22)	13.94 (1.13)		14.30 (1.16)	18.03 (1.60)	
Very good	32.25 (0.92)	31.12 (1.00)		27.89 (1.62)	25.54 (1.42)		24.62 (1.43)	24.78 (1.91)	
Good	32.25 (0.98)	33.02 (1.08)		29.37 (1.65)	32.86 (1.74)		36.60 (1.78)	33.14 (2.21)	
Fair/poor	21.67 (0.93)	22.22 (1.07)		28.55 (1.87)	27.65 (1.81)		24.48 (1.67)	24.05 (2.10)	
<b>SUD, past year</b>									
Alcohol	76.61 (0.85)	81.06 (0.87)	<.001	72.07 (1.60)	73.72 (1.52)	0.464	81.47 (1.37)	87.10 (1.37)	0.005
Cannabis	26.45 (0.86)	22.36 (0.89)	0.001	35.38 (1.69)	32.91 (1.68)	0.294	24.53 (1.41)	17.30 (1.53)	<.001
Cocaine	7.36 (0.59)	7.81 (0.66)	0.611	12.26 (1.31)	12.00 (1.34)	0.890	6.28 (0.81)	7.97 (1.33)	0.277
Heroin	7.28 (0.61)	4.58 (0.42)	<.001	3.81 (0.78)	1.42 (0.48)	0.009	4.07 (0.80)	2.03 (0.70)	0.058

Data from 2008-2019 NSDUH. Results are based on analyses of weighted data. White denotes non-Hispanic White, Black denotes non-Hispanic Black. Sep, Div, Wid denotes separated, divorced or widowed marital status.

Table S3. Disparities in health coverage and substance use treatment for three low income<sup>A</sup> racial/ethnic adult groups with substance use disorders in expansion and non-expansion states after implementation of the Affordable Care Act Medicaid expansion provision excluding states that expanded Medicaid before 2014 (California, Connecticut, District of Columbia, Minnesota, New Jersey, and Washington)

Coverage/Use	Expansion States						Non-Expansion States					
	Pre-Expansion 2008-2013		Post-Expansion 2014-2019		Difference Estimate <sup>B</sup>		Pre-Expansion 2008-2013		Post-Expansion 2014-2019		Difference Estimate <sup>B</sup>	
	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Uninsurance												
White	33.5	30.7, 36.4	14.0	12.0, 16.1	-19.53	-23.04, -16.02	42.3	38.9, 45.8	31.7	28.7, 34.8	-10.62	-15.16, -6.08
Black	30.7	26.2, 35.5	13.7	10.1, 18.3	-16.98	-23.18, -10.78	44.6	39.3, 50.1	33.1	28.8, 37.8	-11.48	-18.59, -4.38
Hispanic	43.6	37.2, 50.1	22.3	17.6, 27.7	-21.33	-29.50, -13.15	59.6	52.8, 66.1	51.8	45.7, 57.8	-7.81	-16.78, 1.15
Medicaid												
White	20.5	18.1, 23.1	40.7	37.6, 43.8	20.24	16.28, 24.21	13.7	11.7, 16.0	20.9	18.4, 23.7	7.18	3.78, 10.58
Black	37.7	32.2, 43.6	50.0	44.1, 56.0	12.31	3.96, 20.67	23.0	19.6, 26.8	28.4	24.5, 32.6	5.39	-0.04, 10.81
Hispanic	25.3	20.2, 31.2	46.0	40.1, 52.0	20.71	12.62, 28.80	14.3	10.4, 19.4	17.2	12.4, 23.3	2.84	-4.19, 9.87
Private Insurance												
White	32.2	29.8, 34.6	32.5	29.7, 35.5	0.36	-3.30, 4.02	31.8	29.0, 34.8	34.9	32.3, 37.6	3.07	-0.65, 6.80
Black	18.1	14.4, 22.6	22.2	17.3, 28.0	4.01	-2.75, 10.77	18.8	15.2, 23.0	23.4	19.5, 27.9	4.63	-1.06, 10.32
Hispanic	20.6	16.6, 25.1	22.2	17.9, 27.2	1.64	-4.62, 7.90	16.5	13.0, 20.8	22.1	18.2, 26.6	5.62	-0.07, 11.32
Other insurance												
White	13.8	11.6, 16.36	12.6	10.6, 14.9	-1.21	-4.38, 1.96	11.6	9.6, 14.0	12.5	10.4, 14.9	0.86	-2.24, 3.96
Black	12.6	9.2, 17.1	13.7	10.0, 18.4	1.01	-4.68, 6.71	12.9	9.5, 17.2	14.1	11.2, 17.7	1.26	-3.78, 6.29
Hispanic	10.6	7.0, 15.9	9.5	5.6, 15.6	-1.14	-7.70, 5.42	9.1	5.8, 14.0	8.8	5.5, 13.8	-0.31	-5.99, 5.38
SUD treatment, past year												
White	17.5	15.1, 20.1	15.9	13.8, 18.3	-1.55	-4.87, 1.77	13.2	10.9, 15.9	14.9	12.9, 17.1	1.67	-1.58, 4.92
Black	13.3	9.7, 18.0	14.3	10.6, 19.1	1.06	-4.84, 6.94	9.5	6.9, 12.9	8.0	6.0, 10.7	-1.44	-5.23, 2.34
Hispanic	9.4	6.5, 13.4	11.2	7.6, 16.3	1.82	-3.63, 7.26	8.1	4.8, 13.1	7.1	4.8, 10.4	-0.97	-5.82, 3.87
Income-eligible SUD treatment, past year												
White	16.0	13.7, 18.6	14.9	12.8, 17.2	-1.14	-4.41, 2.13	11.7	9.5, 14.3	13.6	11.7, 15.8	1.95	-1.21, 5.12
Black	10.9	7.6, 15.3	13.1	9.5, 17.9	2.23	-3.44, 7.90	8.6	6.1, 12.0	7.1	5.2, 9.6	-1.48	-5.10, 2.15
Hispanic	7.8	5.3, 11.3	9.7	6.4, 14.5	1.91	-3.04, 6.86	5.7	3.4, 9.4	6.3	4.1, 9.5	0.60	-3.31, 4.52

Data from the 2008-2019 National Survey on Drug Use and Health. <sup>A</sup> Low income defined as  $\leq 138\%$  of the Federal Poverty Level (FPL).  
<sup>B</sup> Differences were estimated using predicted marginal effects at representative values from multivariable logistic regression models that controlled for age, sex, the post-ACA indicator (2014-2019), and the interaction between the post-ACA indicator and the racial/ethnic group.  
We then estimated using predicted marginal effects at representative values.

Table S4. Disparities in health coverage and substance use treatment for three low income<sup>A</sup> racial/ethnic adult groups with substance use disorders in expansion and non-expansion states after implementation of the Affordable Care Act Medicaid expansion provision excluding states that expanded Medicaid during 2015-2019 (Alaska, Indiana, Pennsylvania, Montana, Louisiana, Virginia, and Maine)

Coverage/Use	Expansion States						Non-Expansion States					
	Pre-Expansion 2008-2013		Post-Expansion 2014-2019		Difference Estimate <sup>B</sup>		Pre-Expansion 2008-2013		Post-Expansion 2014-2019		Difference Estimate <sup>B</sup>	
	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Uninsurance												
White	32.9	30.2, 35.7	13.4	11.7, 15.2	-19.52	-22.75, -16.29	44.3	40.3, 48.4	35.1	31.2, 39.1	-9.29	-14.90, -3.69
Black	31.3	27.1, 35.9	13.1	9.9, 17.1	-18.24	-24.00, -12.54	44.5	38.0, 51.1	37.4	32.0, 43.2	-7.05	-15.78, 1.67
Hispanic	46.3	41.1, 51.8	25.8	22.1, 29.8	-20.55	-27.16, -13.94	61.5	54.9, 67.6	55.3	48.6, 61.7	-6.22	-15.36, 2.92
Medicaid												
White	19.3	17.07, 21.81	41.0	38.0, 44.1	21.71	17.91, 25.52	13.2	10.8, 16.0	19.4	16.3, 22.9	6.23	2.04, 10.43
Black	36.5	31.7, 41.6	50.9	45.7, 56.2	14.47	7.16, 21.78	22.4	18.4, 27.0	24.6	20.6, 29.1	2.18	-3.86, 8.22
Hispanic	27.2	22.4, 32.5	44.2	40.0, 48.5	17.06	10.50, 23.62	13.2	9.2, 18.6	15.2	10.4, 21.7	2.01	-5.26, 9.28
Private Insurance												
White	32.9	30.5, 35.31	32.5	30.0, 35.1	-0.36	-3.76, 3.03	30.9	27.7, 34.2	34.2	31.0, 37.5	3.32	-1.18, 7.82
Black	18.8	15.0, 23.4	21.8	17.6, 26.7	2.97	-3.23, 9.21	20.0	15.6, 25.2	22.8	18.5, 27.8	2.83	-3.83, 9.50
Hispanic	17.1	14.2, 20.5	20.7	17.6, 24.2	3.59	-0.88, 8.07	14.9	11.5, 19.2	20.7	16.8, 25.4	5.81	0.07, 11.55
Other insurance												
White	14.7	12.6, 17.2	12.7	10.7, 15.0	-1.99	-5.07, 1.09	11.2	8.9, 14.1	11.5	9.0, 14.5	0.25	-3.53, 4.03
Black	12.7	9.8, 16.3	13.4	10.3, 17.3	0.68	-4.08, 5.44	12.5	8.6, 17.9	14.5	10.9, 19.0	1.95	-4.18, 8.08
Hispanic	9.2	6.4, 13.0	9.3	6.6, 13.0	0.08	-4.44, 4.60	10.0	6.3, 15.3	8.7	5.1, 14.3	-1.30	-7.50, 4.91
SUD treatment, past year												
White	19.0	16.5, 21.7	14.4	12.6, 16.5	-4.53	-7.79, -1.28	14.4	11.5, 17.8	14.5	12.1, 17.3	0.15	-3.94, 4.24
Black	14.9	11.4, 19.2	14.1	10.7, 18.2	-0.82	-6.23, 4.59	10.3	7.2, 14.6	7.8	5.6, 10.8	-2.49	-6.93, 1.96
Hispanic	9.3	6.7, 12.8	10.0	7.4, 13.2	0.65	-3.46, 4.77	8.0	4.6, 13.6	7.2	4.6, 11.0	-0.83	-6.13, 4.46
Income-eligible SUD treatment, past year												
White	17.6	15.1, 20.4	13.5	11.7, 15.6	-4.04	-7.28, -0.80	12.4	9.6, 15.8	13.0	10.7, 15.7	0.65	-3.32, 4.62
Black	13.1	9.8, 17.3	12.4	9.4, 16.2	-0.69	-5.79, 4.40	9.6	6.6, 13.8	6.7	4.7, 9.5	-2.92	-7.20, 1.35
Hispanic	7.9	5.5, 11.1	8.8	6.4, 11.9	0.91	-2.97, 4.79	5.2	2.9, 9.2	6.2	3.9, 9.8	0.99	-3.17, 5.16

Data from the 2008-2019 National Survey on Drug Use and Health. <sup>A</sup> Low income defined as  $\leq 138\%$  of the Federal Poverty Level (FPL).

<sup>B</sup> Differences were estimated using predicted marginal effects at representative values from multivariable logistic regression models that controlled for age, sex, the post-ACA indicator (2014-2019), and the interaction between the post-ACA indicator and the racial/ethnic group.

We then estimated using predicted marginal effects at representative values.

Table S5. Disparities in health coverage and substance use treatment for three low income<sup>A</sup> racial/ethnic adult groups with substance use disorders in expansion and non-expansion states after implementation of the Affordable Care Act, Medicaid expansion provision controlled for age, sex, state-period unemployment, and post-ACA period indicator.

Coverage/Use	Expansion States						Non-Expansion States					
	Pre-Expansion 2008-2013		Post-Expansion 2014-2019		Difference Estimate <sup>B</sup>		Pre-Expansion 2008-2013		Post-Expansion 2014-2019		Difference Estimate <sup>B</sup>	
	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
Uninsurance												
White	33.4	30.7, 36.2	13.3	11.6, 15.2	-20.05	-23.30, -16.81	43.1	39.75, 46.5	31.7	28.7, 34.8	-11.40	-15.88, -6.91
Black	32.0	27.7, 36.7	13.4	10.2, 17.5	-18.61	-24.38, -12.84	43.9	38.63, 49.41	31.0	26.8, 35.5	-12.98	-19.92, -6.03
Hispanic	46.1	40.8, 51.5	24.8	21.3, 28.8	-21.26	-27.78, -14.74	60.2	53.34, 66.63	50.4	44.4, 56.3	-9.81	-18.76, -0.86
Medicaid												
White	19.2	17.0, 21.6	40.9	37.9, 44.0	21.74	17.95, 25.54	13.6	11.57, 15.86	20.9	18.4, 23.6	7.31	3.93, 10.69
Black	36.2	31.4, 41.2	50.7	45.4, 55.9	14.52	7.24, 21.81	23.1	19.69, 27.01	29.0	25.0, 33.4	5.86	0.35, 11.38
Hispanic	27.2	22.4, 32.6	44.6	40.4, 48.9	17.40	10.80, 23.98	14.2	10.31, 19.30	17.4	12.6, 23.6	3.22	-3.83, 10.26
Private Insurance												
White	32.6	30.2, 35.0	32.4	29.8, 35.0	-0.19	-3.58, 3.19	31.6	28.89, 34.51	35.1	32.6, 37.8	3.51	-0.20, 7.22
Black	18.6	14.7, 23.1	21.6	17.5, 26.4	3.06	-3.10, 9.23	19.3	15.64, 23.49	24.7	20.6, 29.3	5.45	-0.37, 11.27
Hispanic	17.3	14.4, 20.7	21.4	18.2, 24.9	4.03	-0.49, 8.55	16.5	12.98, 20.74	22.9	18.9, 27.5	6.40	0.65, 12.15
Other insurance												
White	14.7	12.54, 17.12	12.8	10.8, 15.1	-1.92	-5.00, 1.16	11.4	9.46, 13.74	12.3	10.3, 14.7	0.88	-2.17, 3.93
Black	12.7	9.80, 16.29	13.4	10.3, 17.3	0.72	-4.05, 5.49	12.8	9.43, 17.09	14.2	11.2, 17.8	1.39	-3.64, 6.43
Hispanic	9.2	6.43, 13.03	9.4	6.6, 13.1	0.156	-4.37, 4.68	8.9	5.71, 13.76	8.7	5.4, 13.7	-0.23	-5.86, 5.39
SUD treatment, past year												
White	18.9	16.4, 21.6	14.4	12.6, 16.5	-4.45	-7.70, -1.20	13.1	10.86, 15.77	14.9	12.9, 17.1	1.73	-1.50, 4.96
Black	14.8	11.3, 19.2	14.1	10.7, 18.2	-0.76	-6.17, 4.64	9.5	6.88, 12.923	8.1	6.1, 10.7	-1.37	-5.16, 2.41
Hispanic	9.3	6.7, 12.7	10.0	7.5, 13.3	0.71	-3.41, 4.83	8.0	4.81, 12.95	7.1	4.8, 10.4	-0.87	-5.70, 3.96
Income-eligible SUD treatment, past year												
White	17.5	15.0, 20.2	13.5	11.7, 15.6	-3.94	-7.16, -0.71	11.6	9.38, 14.18	13.6	11.7, 15.8	2.05	-1.09, 5.19
Black	13.0	9.7, 17.2	12.3	9.3, 16.1	-0.65	-5.72, 4.42	8.6	6.13, 12.01	7.3	5.4, 9.8	-1.35	-5.00, 2.30
Hispanic	7.8	5.5, 11.1	8.9	6.5, 12.0	1.00	-2.89, 4.90	5.6	3.29, 9.28	6.3	4.1, 9.5	0.75	-3.16, 4.66

Data from the 2008-2019 National Survey on Drug Use and Health. <sup>A</sup> Low income defined as  $\leq 138\%$  of the Federal Poverty Level (FPL).

<sup>B</sup> Differences were estimated using predicted marginal effects at representative values from multivariable logistic regression models that controlled for age, sex, state-period unemployment, the post-ACA indicator (2014-2019), and the interaction between the post-ACA indicator and the racial/ethnic group.

We then estimated using predicted marginal effects at representative values.