

DiD-regression

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We first examine the effect of medicaid expansion on uninsured rate. Table 2 presents the primary findings of the DD analysis, employing sample weights and adjusting for covariates. the first 7 columns show estimates from the fixed effect logistic regression, while the second seven columns show results from OLS. Each specification controls for state and year fixed effects. Column 2 controls for the variables state political ideology and state unemployment rate which were the minimal adjustment set based on the DAG result. Column 3 additionally controls for region-by-year fixed effects while column 4 control for state-specific linear time trends. the full model with all the control variables added are presented in columns 5-7, the difference is in column 6 region-by-year fixed effects is added whereas in column 7 state-specific linear time trend is added.

Columns numbers reveal a positive and statistically significant association between Medicaid expansion and hospital Medicaid revenue. For hospitals in Medicaid-expansion states, Medicaid net revenue increased, on average, by 2.67% after Medicaid expansion (column 3). Meanwhile, columns 4 - 6 shows Medicaid expansion decreased hospital uncompensated care cost by approximately 2%, which is statistically and economically significant.

For both populations, the “Post X Expansion” term was positive and statistically significant for “any insurance” ($p < .01$) and “Medicaid” ($p < .001$), suggesting that Medicaid expansion resulted in a significant increase in the probability of having any insurance and having Medicaid for urban and rural low-income populations pooled.

Put differently, our estimates and standard errors from column 2

Table 1: The Effect of Medicaid Expansion on Uninsured Rate (Difference-in-Differences Estimation)

	FE OLS							FE LOGIT						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Medicaid Expansion	-0.075*** (0.011)	-0.071*** (0.011)	-0.085*** (0.015)	-0.044*** (0.010)	-0.081*** (0.012)	-0.092*** (0.015)	-0.053*** (0.011)	-0.568*** (0.083)	-0.549*** (0.081)	-0.572*** (0.102)	-0.333*** (0.082)	-0.612*** (0.089)	-0.629*** (0.112)	-0.384*** (0.098)
Foreign-Born	0.244*** (0.012)	0.243*** (0.013)	0.243*** (0.013)	0.244*** (0.013)	-0.229*** (0.014)	2.27 (7.86)	-0.064** (0.025)	1.03*** (0.051)	1.02*** (0.053)	1.02*** (0.054)	1.03*** (0.054)	-0.389*** (0.124)	-0.406*** (0.128)	9.60*** (0.406)
Medicaid Expansion × Foreign-Born	-0.031 (0.018)	-0.029 (0.018)	-0.028 (0.018)	-0.031 (0.017)	0.0004 (0.023)	0.004 (0.031)	0.0009 (0.021)	0.170** (0.084)	0.186** (0.082)	0.199** (0.079)	0.180** (0.076)	0.222** (0.107)	0.253*** (0.094)	0.240** (0.097)
State Unemployment Rate		0.004 (0.003)	0.005 (0.003)	0.002 (0.003)					0.021 (0.016)	0.023* (0.014)	0.010 (0.013)			
State Political Ideology		-0.011 (0.038)	0.015 (0.036)	-0.044 (0.025)					-0.162 (0.197)	-0.026 (0.182)	-0.271* (0.140)			
Controls					yes	yes	yes					yes	yes	yes
State FE	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Year FE	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Region-Year FE			yes			yes				yes			yes	
State-Specific Linear Time Trends				yes			yes				yes			yes
Observations	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594
Squared Correlation	0.08869	0.08874	0.08915	0.08977	0.16009	0.15835	0.16112	0.08897	0.08904	0.08948	0.09016	0.16532	0.16580	0.16655
Pseudo R ²	0.99202	0.99202	0.99203	0.99203	0.99257	0.99256	0.99258	0.08279	-105.71	-105.66	0.08385	-97.947	-97.888	0.15066
BIC	2,371,638.2	2,371,581.6	2,371,233.5	2,370,014.1	2,208,630.5	2,213,214.6	2,206,836.9	260,177,373.2	260,157,750.0	260,035,778.6	259,875,687.9	241,236,546.0	241,092,958.8	240,927,239.1

Clustered (State & Year) standard-errors in parentheses

Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Table 2: The Effect of Medicaid Expansion on Medicaid Coverage Rate (Difference-in-Differences Estimation)

	FE OLS							FE LOGIT						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Medicaid Expansion	0.136*** (0.018)	0.134*** (0.019)	0.144*** (0.023)	0.085*** (0.021)	0.140*** (0.018)	0.148*** (0.023)	0.092*** (0.022)	0.498*** (0.072)	0.493*** (0.074)	0.554*** (0.091)	0.305*** (0.079)	0.591*** (0.084)	0.660*** (0.108)	0.390*** (0.099)
Foreign-Born	-0.158*** (0.013)	-0.158*** (0.014)	-0.157*** (0.014)	-0.159*** (0.014)	0.086*** (0.021)	-0.634 (10.3)	-0.002 (0.016)	-0.862*** (0.096)	-0.863*** (0.097)	-0.859*** (0.097)	-0.869*** (0.097)	-0.034 (0.083)	-0.021 (0.080)	-0.035 (0.078)
Medicaid Expansion × Foreign-Born	0.007 (0.023)	0.007 (0.022)	0.005 (0.022)	0.009 (0.021)	-0.012 (0.026)	-0.016 (0.022)	-0.012 (0.024)	0.239*** (0.054)	0.241*** (0.051)	0.233*** (0.054)	0.256*** (0.042)	0.151** (0.072)	0.136** (0.069)	0.163*** (0.057)
State Unemployment Rate		-0.003 (0.003)	-0.003 (0.003)	-0.003 (0.004)					-0.011 (0.014)	-0.014 (0.014)	-0.015 (0.016)			
State Political Ideology		-0.035 (0.043)	-0.074* (0.036)	0.025 (0.032)					-0.201 (0.189)	-0.368** (0.161)	0.082 (0.151)			
Controls					yes	yes	yes					yes	yes	yes
State FE	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Year FE	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Region-Year FE			yes			yes				yes			yes	
State-Specific Linear Time Trends				yes			yes				yes			yes
Observations	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594	1,975,594
Squared Correlation	0.07469	0.07472	0.07521	0.07612	0.18391	0.18433	0.18530	0.07447	0.07451	0.07495	0.07579	0.18712	0.18757	0.18851
Pseudo R ²	0.99160	0.99160	0.99161	0.99161	0.99240	0.99240	0.99241	0.06642	-104.05	-104.00	0.06752	-93.720	-93.669	0.15944
BIC	2,626,427.5	2,626,407.3	2,625,879.1	2,624,067.8	2,378,984.1	2,378,539.9	2,376,264.9	278,455,133.8	278,449,483.9	278,320,051.2	278,127,049.6	251,078,904.8	250,942,679.5	250,710,650.8

Clustered (State & Year) standard-errors in parentheses

Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Table number reports empirical finding regarding the effect of medicaid expansion on medicaid coverage among low income adult.