Analysis of the Effects of Medicaid Expansion and Economic Changes on Social Security Disability Insurance Enrollment Rates

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Background

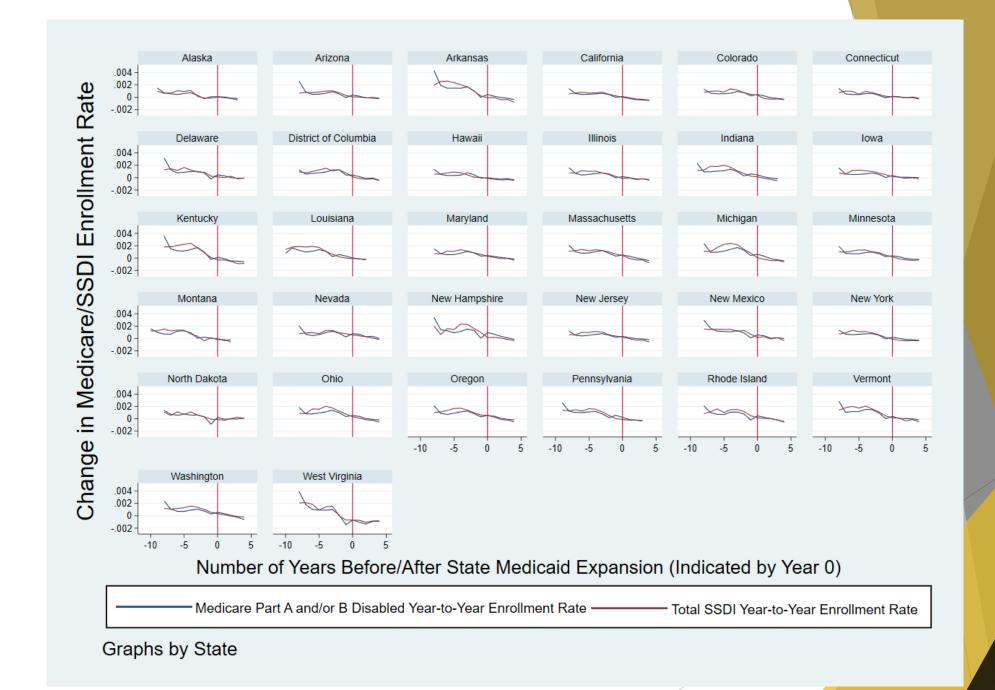
- ➤ Over the past thirty years, non-elderly Social Security Disability Insurance (SSDI) enrollment rates have increased by over forty percent, though there has been a sudden and steady decrease in the annual number of people enrolling into the program throughout the mid to late 2010's
- ▶ Decrease started around the same time as the passage and enactment of the Patient Protection and Affordable Care Act (PPACA) which allowed for states to opt into federally assisted Medicaid program expansion
- SSDI beneficiaries are eligible for Medicare after a two year wait period

Project Objective

- ► We hypothesize that due to state-bystate Medicaid expansion that was outlined in the PPACA, enrollment rates for SSDI steadily dropped throughout the 2010's due to changes in economic incentives and health insurance availability
- Medicaid expansion allowed for states to offer their most in-need residents access to health insurance, thereby decreasing a potential enrollee's incentive to apply for SSDI in hopes of receiving Medicare benefits
- Evidenced by greater decreases in SSDI enrollment for states that expanded Medicaid

Methods

- ► Annual state-by-state program enrollment data from the Social Security Administration and Centers for Medicare and Medicaid, with annual state-by-state unemployment data from the Federal Reserve Economic Research website
- Merged into a single master data file that was used to build a statistical model in data analysis software Stata S/E
- $\blacktriangleright \quad Enrollment \ Rate = \frac{Enrolled \ Persons_{Year \, n} Enrolled \ Persons_{Year \, n-1}}{State \ Population_{Year \, n-1}}$
- Ran a series of regressions to evaluate Medicaid expansion's statistical significance

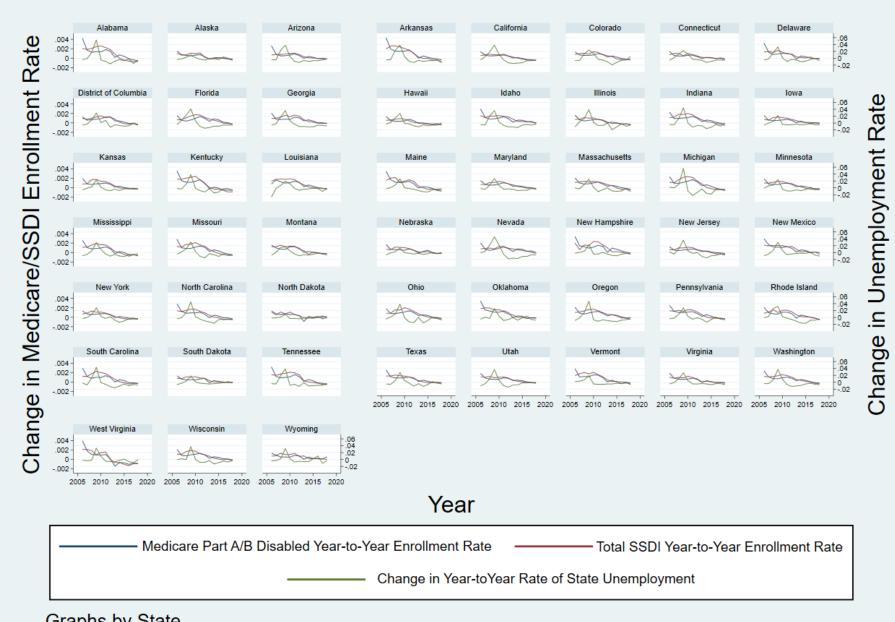


. xtreg totalrate expansion urratescaled year, fe cluster(stateid)

Fixed-effects (within) regression Group variable: stateid	Number of obs Number of groups	<u>-</u> -	663 51
R-sq: within = 0.7091 between = 0.0512 overall = 0.6691	Obs per group: min avg max	=	13 13.0 13
corr(u i Yh) = -0 0029	F(3,50)	=	129.37

(Std. Err. adjusted for 51 clusters in stateid)

totalrate	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
expansion urratescaled year _cons	0002824 .0075052 0001392 .28079	.0000903 .0013755 .0000101 .0203736	-3.13 5.46 -13.74 13.78	0.003 0.000 0.000 0.000	0004638 .0047425 0001595 .2398684	000101 .0102679 0001188 .3217115
sigma_u sigma_e rho	.00018883 .00042483 .16498024	(fraction	of varia	nce due 1	to u_i)	



Graphs by State

Conclusions

- Generally found that a state's expansion of Medicaid had a statistically significant impact on SSDI enrollment
- ► Important to also state that unemployment rates may also impact SSDI enrollment
- ► NOTE: Our most unrestricted regression specification produced results not supporting this conclusion

Further Discussion

- ► It is possible that the mentioned government programs are overburdened due to their lack of accessibility to those who require their services and assistance
- ► Recommend that supplementary research use microlevel survey data to gain a more in-depth understanding of individual incentives
- ▶ Policy reform and a greater understanding of how government programs affect individuals is of the utmost importance to ensure that the needs of the United States' most at-risk citizens are not ignored

Acknowledgements

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