The Impact of Sexual Assault on Hourly Wages

Motivation

Around 15% of American women have survived a completed rape during their lifetime. I wondered about the long-term quantitative impacts of sexual assault for survivors, including impacts on lifetime earnings or hourly wages.

Question

Do female sexual assault survivors make lower hourly wages than their similarly situated female peers?

Data

National Longitudinal Study of Adolescent to Adult Health (AddHealth) -Wave IV In-Home Questionnaire (2008), public use

Method

Nearest-neighbor propensity score match and logistic regression on the matched data for double robustness

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Mode

Transformed yearly p income to hourly wag WAGE=PI/(50*repor hours)

Propensity score estin logistic regression: P B1*RACE + B2*AGB3*EDU + B4*CHII

Linear regression on dataset to estimate in wage: LOG wage ~ B1*PHYS $SA + B2^{3}$ + B3*EDU + B4*MAB5*URBAN d

This was the first study of wages in this literature to use the matching technique. However, the i used for sexual assault in the AddHealth dataset may not capture all SA survivors. In addition, th propensity score match method led to a substantial reduction in sample size, and this model was to control for family-level effects.

Moving forward, additional controls such as parent's socioeconomic status, career industry, or personality measures may increase R squared. Future research rests in several areas, like the important sexual assault on labor force participation rates and the role of diminished physical or mental heat mechanism for the observed lower wages.

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lel	PSM and Regression Results						
v personal	Summary of Balance for Data – SMD			Covariate	Estimate	Std Error	P-value
age: orted weekly		All	Matched	Intercept	1.83	0.19	<2e^-16***
	Distance	0.4133	0.0000	PHYS SA	-0.24	0.08	0.003**
timated with PHYS_SA ~ GE + ILDREN n the matched impacts on ~ 2*CHILDREN /ARRIED +	RACE1	0.0018	-0.0151	CHILDREN	-0.11	0.04	0.002**
	RACE2	0.0265	0.0077	EDU – High School Grad	0.53	0.16	0.001***
	RACE3	0.0379	0.0336	EDU – College Grad	0.92	0.19	2.77e^-06***
	RACE4	-0.1608	0.0000	EDU – Post Grad	0.92	0.21	1.38e^-05***
	AGE	-0.0111	-0.0419	MARRIED	-0.16	0.08	0.062
	EDU DNG	0.1146	0.0000	UBRAN urban	0.25	0.10	0.011*
	EDU HSG	0.2631	-0.0213	URBAN other	-0.06	0.22	0.782
	EDU CG	-0.3781	0.0000			0.22	0.762
	EDU PG	-0.0598	0.0334	N=598, Adjusted R-squared: 0.126 Significance codes: '***' 0.001 // '**' 0.01 // '*' .05			
	CHILDREN	0.2178	0.0000				

Findings and Discussion

Based on this data and approach, sexual assault survivors do make lower wages than similarly si female peers. This study finds approximately 24% lower hourly wages for sexual assault sur



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