

Housing & Health: Recent Evidence on their Bi-Directional Relationship

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Economics of Health Equity Seminar

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THE QUARTERLY JOURNAL OF ECONOMICS PROVIDED 1879 TO STATE OF THE PROVIDED TO STATE OF THE PROV

Eviction &

Poverty in

American Cities

Robert Collinson (Notre Dame)
John Eric Humphries (Yale University)
Nicholas Mader (University of Chicago)
Davin Reed (Philadelphia Fed)
Daniel Tannenbaum (University of Nebraska)
Winnie Van Dijk (Harvard University, now Yale)

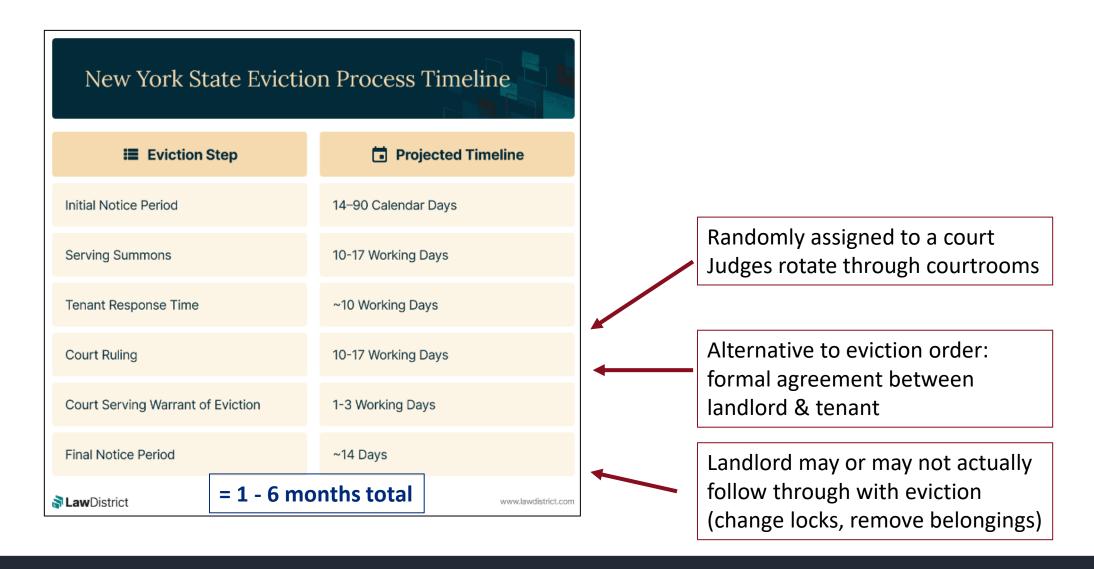
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FINDINGS PREVIEW

- Main question: What is the impact of an eviction on housing stability, housing outcomes, financial wellbeing, and health care utilization?
 - Reverse causality problem: Run-up of financial and health issues before the eviction
- Method: Judge Leniency Instrumental Variable (exploiting random assignment of cases to courts & judges and their tendency to give eviction verdicts or not)
- Results:
 - Moves (+28%)
 - Use of shelters (+300%)
 - No change in quality of neighborhood
 - Earnings (-8%)
 - Credit scores (-16.5 pts)
 - Total hospitalizations (+29%)
 - Mental health hospitalizations (+133%)

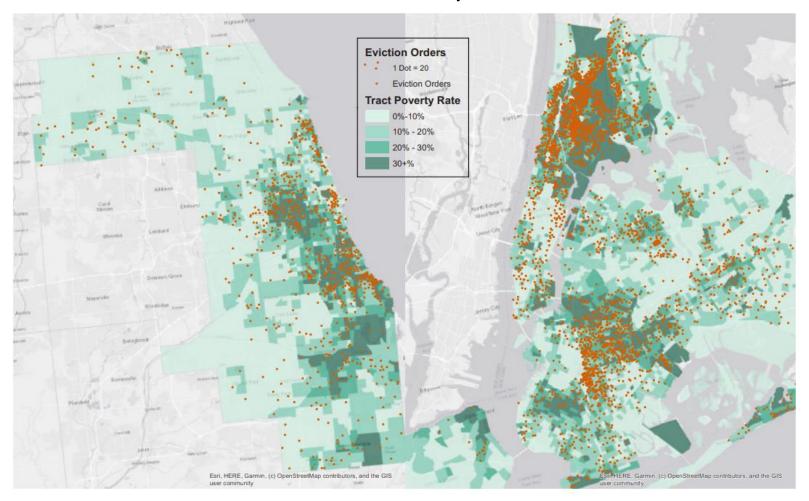


WHAT IS AN EVICTION?



THE POLICY PROBLEM

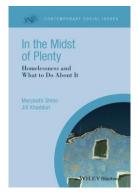
• > 2M eviction cases are filed in the US annually

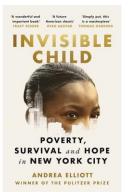


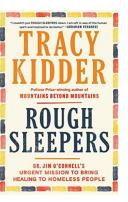
THE POLICY PROBLEM

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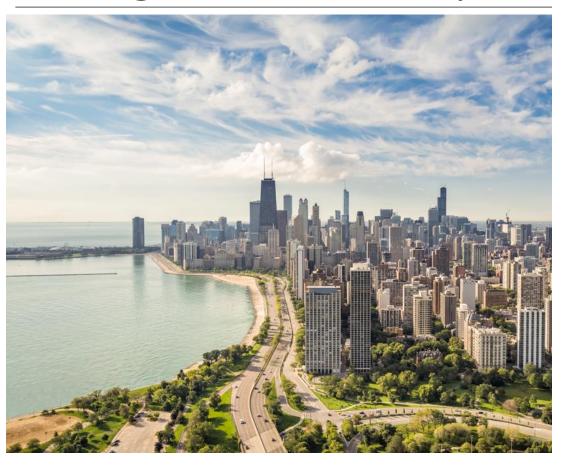




- An eviction on one's record can make it very difficult to secure future leases or loans
- Eviction is a major contributor to homelessness a problem affecting 1.25M people annually
 - Studies have estimated a year of homelessness for one person results in \$15-\$35K in social services
- Reducing housing instability (both "literal" homelessness and other forms of instability) is a policy priority in many US cities, for a host of reasons:
 - Costly emergency shelter and social services
 - Has ripple effects across people's lives (kids change schools, hard to maintain health / care for chronic conditions, exposure to alcohol / substances, stigma and difficulty finding future employment)
 - A marker of a city's general wellbeing

CONTEXT OF THE STUDY

Chicago (Cook County)



New York City



WHAT IS AN EVICTION?

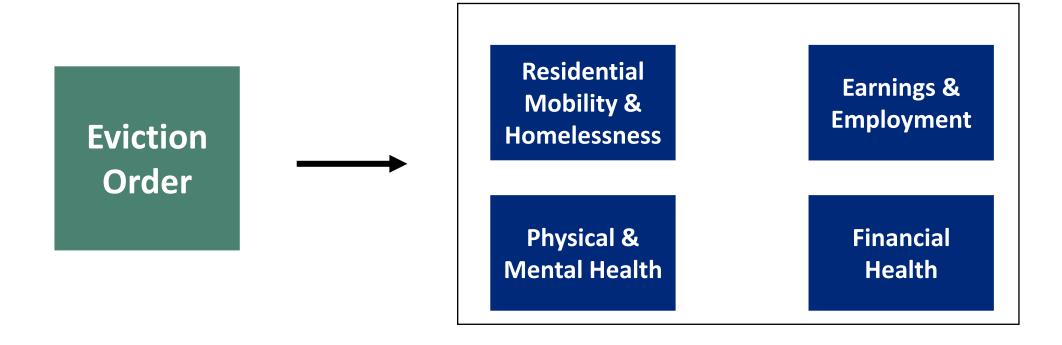
Chicago (Cook County)

- 33,000 eviction cases/year
- Randomly assigned to courtrooms
- 65% of cases end with an eviction order
 - 26% of these are executed by sheriff's office
- Of those not evicted, 39% end with a formal agreement
- Most tenants are not represented by a lawyer

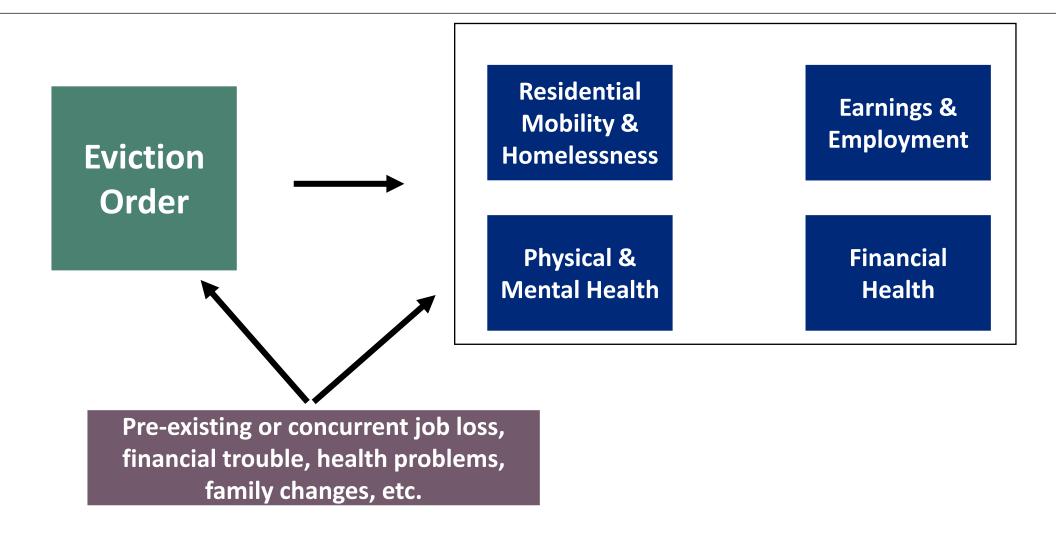
New York City

- 240,000 eviction cases/year
- Randomly assigned courtrooms
 - Not true of public housing, so excluded
- 35% of cases end with an eviction order
 - 31% of these are executed by the city marshal
- Of those not evicted, 64% end with a formal agreement
- Most tenants are not represented by a lawyer

THEORETICAL MODEL



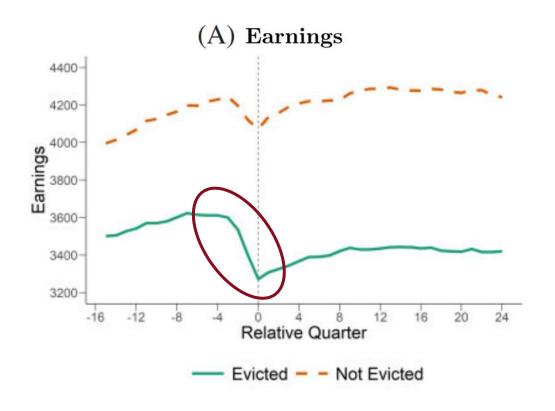
THEORETICAL MODEL

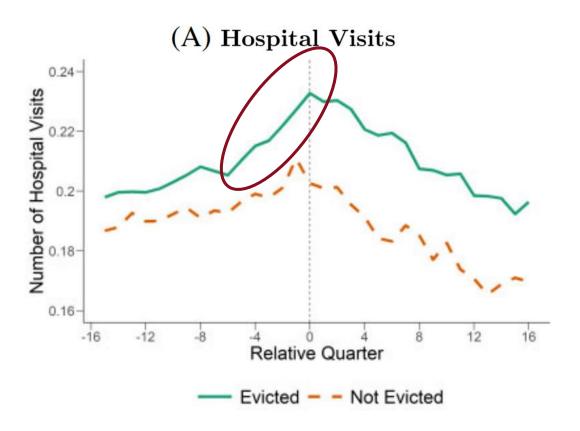


SELECTION ISSUE

- People in eviction court differ in many ways from renters who don't become involved in eviction processes
 - Landlord characteristics
 - Individual characteristics
 - Neighborhood characteristics
- Of people who enter eviction court, those who <u>actually end up with an eviction order</u> differ from those who do not end up with an eviction order
 - Landlord characteristics
 - Individual characteristics
 - Neighborhood characteristics

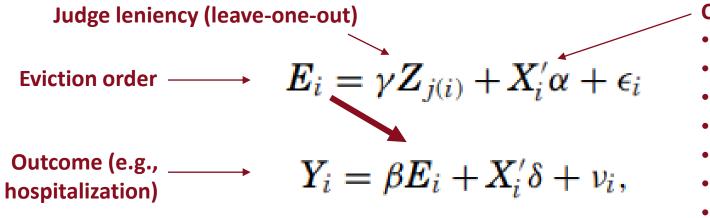
SELECTION ISSUE





SOLUTION: JUDGE LENIENCY INSTRUMENT

- Cases are randomly assigned courtrooms/judges
- The judge working in a given courtroom has a certain predisposition toward making an eviction order
- "Compliers" =
 - Tenants who only receive eviction order when assigned to a harsh judge
 - Tenants who only avoid an eviction order when assigned to a lenient judge
- Two-stage least squares framework:



Controls:

- Court-by-year FEs
- \$ unpaid rent
- Gender
- Race
- Neighborhood poverty
- Neighborhood median rent
- Age (cubic)

IV ASSUMPTIONS

- Variation observed between 10th
 "stringency" percentile to 90th percentile:
 - 7 percentage point increase in eviction order probability in Cook County
 - 6 percentage point difference in New York
- Exclusion restriction concerns:
 - Judge impacts other aspects of case outcome (e.g., \$ owed)
 - Add this control into Cook County model, results unchanged
 - Any other ways judge leniency might affect health, other than through eviction order?

	Cook C	ounty	New York		
	Evicted (1)	Stringency (2)	Evicted (3)	Stringency (4)	
Age at case	-0.03329*** (0.00376)	-0.00012 (0.00020)	-0.00403*** (0.00016)	-0.00001 (0.00001)	
Female	0.00882 (0.00644)	0.00041 (0.00036)	-0.04413*** (0.00310)	-0.00009 (0.00011)	
Black	0.06297*** (0.00628)	0.00012 (0.00028)	0.00923*** (0.00323)	0.00010 (0.00018)	
White	0.00358 (0.00582)	0.00011 (0.00030)	-0.01494^{**} (0.00616)	-0.00032 (0.00027)	
Hispanic	0.05957*** (0.00603)	0.00045 (0.00030)	-0.00743^{**} (0.00368)	0.00001 (0.00017)	
Neighborhood poverty rate (5 yr. avg.)	0.5540*** (0.04813)	0.00208 (0.00221)	$-0.02487^* \ (0.01453)$	-0.00025 (0.00066)	
Ad damnum (in 1,000s)	0.00731*** (0.00055)	$0.00001 \\ (0.00002)$	0.00001*** (0.00000)	-0.00000	
No prior case	-0.04037^{***} (0.00221)	-0.00013 (0.00013)	-0.01228^{***} (0.00413)	-0.00014 (0.00014)	
Joint action	$0.01183** \\ (0.00525)$	$-0.00061^{**} \ (0.00025)$			
Observations	301,000	268,000	150,662	150,662	
Joint <i>F</i> -Statistic <i>p</i> -value	102.3 .000	1.497 .104	224.8 .000	1.007 .443	

TABLE III

DATA

Eviction Data

- Eviction records (court data) in NYC and Cook County, IL
 - Personal identifiers (name, address)
 - Outcome of case
 - Judge and landlord names
 - Amount claimed

Outcome data

- Housing stability
 - Address changes (benefits admin data, census, private firm)
 - Eviction executed indictor (court data)
 - Homeless services interactions (local admin data)
- Earnings & employment
 - Quarterly wages (UI admin data)
 - Employment status (UI admin data)
- Financial Health
 - Credit reports (Experian)
- Health (really, health utilization)
 - Hospitalizations & ED visits (SPARCS statewide hospitalization data – NY only)

RESULTS: EVICTION ENFORCEMENT

Non-evicted mean			TABLE IV			
		IMPACT O	ON HOUSING SITUATION			
	1 year after filing			2 years after filing		
	$\mathbb{E}[Y E=0]$ (1)	OLS (2)	IV (3)	$\mathbb{E}[Y E=0]$ (4)	OLS (5)	IV (6)
Enforcement	0.002 (0.031)	0.301*** (0.005)	0.435*** (0.039) [329,279]	0.002 (0.032)	0.313*** (0.005)	0.422** (0.037) [307,837
By location						
Cook County	0.004 (0.059)	0.270*** (0.004)	0.451*** (0.050)	0.004 (0.062)	0.275*** (0.004)	0.442** (0.049)
New York	0.000 (0.017)	0.333*** (0.009)	0.419*** (0.060)	0.000 (0.018)	0.351*** (0.010)	0.401** (0.057)
By group	(010-17)	(01000)	(31232)	(0.000)	(010-20)	(01001)
Female	0.002 (0.030)	0.290*** (0.005)	0.425*** (0.046)	0.002 (0.032)	0.302*** (0.005)	0.418** (0.045)
Black	0.002 (0.032)	0.307*** (0.005)	0.464*** (0.046)	0.002 (0.035)	0.319*** (0.006)	0.436** (0.044)

RESULTS: EARNINGS

		Г	ABLE VI				
	EFFEC	T ON EAR	NINGS AND	EMPLOYMENT			
	1–4 quarters after filing			5–8 quarters after filing			
	$\mathbb{E}[Y E=0]$ (1)	OLS (2)	IV (3)	$\mathbb{E}[Y E=0]$ (4)	OLS (5)	IV (6)	
Earnings	4,300 (3,809)	-229*** (9)	-323* (175) [374,400]	4,254 (3,885)	-269*** (13)	-613** (248) [336,396]	
By location			[0.1,100]			[000,000]	
Cook County	4,821 (5,810)	-286^{***} (12)	-445^{*} (249)	4,821 (5,956)	-320^{***} (17)	-627^{*} (337)	
New York	3,779 (4,926)	-172^{***} (14)	-201 (245)	3,687 (4,991)	-218^{***} (19)	-599^{*} (363)	
By group							
Female	4,136 (3,545)	-195^{***} (10)	-504^{***} (185)	4,094 (3,610)	-238^{***} (14)	-767^{***} (295)	
Black	4,319 (3,664)	-199^{***} (12)	-377 (234)	4,252 (3,718)	-247^{***} (16)	-931*** (307)	

RESULTS: HOSPITALIZATIONS (NY ONLY)

TABLE VIII EFFECT ON HOSPITAL USE							
	1–4 quarters after filing			5–8 quarters after filing			
	$\mathbb{E}[Y E=0]$ (1)	OLS (2)	IV (3)	$\mathbb{E}[Y E=0]$ (4)	OLS (5)	IV (6)	
Number of hospital visits	0.739 (1.321)	0.055*** (0.006)	0.188** (0.094)	0.632 (1.208)	0.039*** (0.006)	-0.113 (0.142)	
Number of emergency visits	0.588 (1.091)	0.045*** (0.005)	0.106 (0.089)	0.511 (1.010)	0.028*** (0.005)	-0.065 (0.124)	
Number of mental health visits	0.047 (0.295)	0.016*** (0.001)	0.054* (0.030) [179,024]	$0.045 \\ (0.346)$	0.012*** (0.002)	-0.035 (0.055 [154,531	

Authors ask but cannot determine: Could an increase in hospitalizations reflect, to some degree, a search for shelter? Why do the effects disappear after 5-8 quarters?

CONCLUSIONS AND POLICY IMPLICATIONS

- Signs of financial, physical, and mental health distress prior to eviction orders
 - Coming up: my dissertation paper on this
- Mobility, financial health, and physical/mental health utilization are negatively impacted by eviction orders, per IV estimates
 - Especially for women and Black tenants
- Averting evictions would likely benefit tenants
 - But what can be done to support tenants (and landlords) who are struggling in effective ways remains to be seen
- How to interpret the effects will also require additional research
 - Does increased health utilization signify worsening health, or a change in resource utilization patterns?
 - Why do effects on health utilization fade out?
 - What are the effects of *notice* of eviction or *actual* executions of eviction on health utilization?
 - What could we capture to measure "health" effects other than acute care utilization?