Economics Research Programme Public Economics and Inequality



Do CCTs raise educational attainment?

A case study of Juntos in Peru

Background

Conditional Cash Transfers (CCTs): transfers to poor households conditional upon pre-specified responsibilities tied to the use of health and education services

Target group	Conditionality	Benefit
Children under age 6	Attendance of regular health checks (CRED), vaccinations	100 Calas
Children aged 6-14	School attendance of at least 85% of the school year	per month (≈ US\$ 37)
Pregnant / lactating women	pre- and post-natal health checks	(~ 000 07)

Motivation

- CCTs as a demand-side intervention to break a poverty trap
- "Theoretical default" (rational agents, functioning markets)
 - \rightarrow should favour *unconditional transfers*
- But: Education as a merit good (Musgrave 1959)
- Conditionality (substitution effect) augments income effect

Research question

What is the effect of JUNTOS on educational outcomes of beneficiary children?

- Enrolment and progression through grade
- Years of schooling
- Likelihood of passing transition points (primary, secondary school)
- Test scores (PPVT, Math test)

Contribution: Evaluate intermediate and final education outcomes rather than compliance with conditionalities, case study Peru

Identification strategy	Kernel Matching	Discussion
Combined matching and DiD (MDiD) (Heckman et al, 1997):	Estimated Propensity Score (Kernel)	Demand side focus
$\hat{A}TT^{MDiD} = \Sigma \{ [y_{it_1} - y_{it_0}] - \Sigma \hat{w}_{ij}[y_{jt_1} - y_{jt_0}] \} w_i$		 Results mixed: success in raising schooling, no effect on test scores Heterogenous effects further

Key identifying assumptions:

- \rightarrow Conditional on observables X,
- \rightarrow evolution of unobservables indep. of T; $u_{it_1} u_{it_0} \perp T_{it_1} \mid X_i$

0.073**

 \rightarrow common support assumption



- study: age of child, number of targeted children, ethnicity
- chool vs household factors
- Longer time span needed to observe final impacts

Results:Schooling Panel C: Age group secondary school (12-18 years) Primary Highest Age-for-Enrolled Outcomes In secondary grade grade complete Baseline 0.496*** -0.089*** -0.539** -0.079** -0.006 Diff (T-C) (0.126) (0.024)(0.011)(0.205)(0.027)Follow-up 0.067** 0.107 -0.009 0.004 -0.217 Diff (T-C) (0.032)(0.227)(0.151) (0.068)(0.047)

 $Pr(T_{it_1}=1|X_{i,t}) < 1$

Results: Learning outcomes

Pooled sample (excluding siblings)

Outcomoo	Younger cohort		Older cohort	
Outcomes	PPVT	Math	PPVT	Math
Baseline				
Diff (T-C)	0.003	0.256	-0.111	-0.181
	(0.123)	(0.218)	(0.100)	(0.214)
Follow-up				
Diff (T-C)	-0.229*	-0.355***	-0.338**	-0.283
	(0.118)	(0.035)	(0.153)	(0.195)
DiD	-0.232	-0.611**	-0.227	-0.101
	(0.178)	(0.231)	(0.148)	(0.227)
Observations	1491	1571	496	438
R-squared	0.01	0.02	0.06	0.02

DiD	(0.034)	(0.065)	(0.094)	(0.031)	(0.053)
Ν	1956	1956	1956	1956	1956
R-squared	0 04	0 38	0.02	0.34	0 22

-0.389***

0.322***

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0.070**

0.093*





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