

Cash or Condition? Evidence From a Cash Transfer Experiment

Sarah Baird, Craig McIntosh, and Berk Özler (2011)

Parijat Lal

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Motivation

- Debate around conditional vs. unconditional cash transfers
- CCTs proponents
 - Address underinvestment in education/health due to market failure
 - Make transfers politically palatable to middle- and upper-class voters
- CCT critics
 - Marginal contribution of conditions to cash transfers largely unknown
 - Implementation of CCT programs may strain administrative capacity
- Ideal experiment: RCT with no transfers vs. UCTs vs. CCTs

Context and Study Design

- Country setting: Malawi
 - 81% of 15.3m population rural in 2009, mostly subsistence farming
 - GNI per capita less than 40% of Sub-Saharan African average
 - 24% net secondary school enrollment
- Sample: 2,907 schoolgirls across 176 EAs in Zomba district
 - Each EA contains average of 250 HHs spanning several villages
 - Selected from three strata: Zomba city, near rural, and far rural
 - Target population: never-married females, 13-22, in school at baseline
- Treatments administered over 2 years
 - **CCT**: monthly transfers of \$4-10 to parents and \$1-5 to girls (varied randomly across EAs) conditional on regular attendance
 - **UCT**: identical, but no condition, and school fees part of transfer
 - Evidence that UCT girls understood rules and were very aware of CCT (general sense program aimed to support girls' education)

- Sources: household surveys (all rounds), school surveys (R2-3), school ledgers, independent achievement tests, and qualitative interviews (R3)

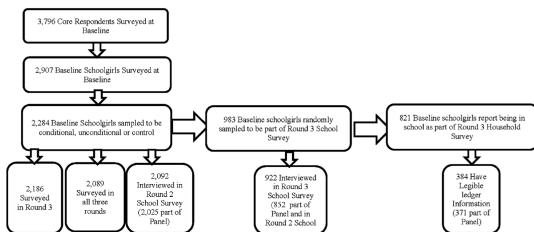


FIGURE I
Study Sample and Attrition

- Outcomes
 - **Schooling:** self-reported data, teacher reports, and attendance ledgers
 - **Learning:** tailored tests of math and English + cognitive ability test
 - **Marriage and fertility:** self-reported data

Attrition and Estimation Strategy

- No significant differential attrition or imbalance between groups

TABLE I
ANALYSIS OF ATTRITION

	Dependent variable					
	(1)	(2)	(3)	(4)	(5)	(6)
	=1 if surveyed in Round 3	=1 if surveyed in all three Rounds	=1 if took educational tests	=1 if information found in Round 2 survey	=1 if information found in Round 3 school survey	=1 if legible ledger found
Conditional treatment	0.020 (0.015)	0.021 (0.030)	0.029* (0.016)	0.033 (0.024)	-0.000 (0.027)	0.116* (0.064)
Unconditional treatment	0.021 (0.019)	0.030 (0.024)	0.035* (0.020)	-0.029 (0.053)	0.014 (0.028)	0.061 (0.077)
Mean in the control group	0.946	0.893	0.929	0.890	0.935	0.378
Number of observations	2,284	2,284	2,284	2,284	983	821
Prob > F(Conditional = Unconditional)	0.965	0.797	0.801	0.246	0.627	0.513

- LPM for intention-to-treat effects of program in each treatment arm

$$Y_i = T_i^C \gamma^C + T_i^U \gamma^U + X_i \beta + \varepsilon_i$$

where T_i^C and T_i^U are indicators for offers to be in the CCT and UCT arms and standard errors ε_i are clustered at EA level

- Age- and stratum-specific sampling weights used to make results representative of target population in study area

- **School enrollment**

- Self-reports: dropout rates lower in treatments; UCT outperforms
 - Evidence of significant over-reporting by control and UCT
- Teacher reports: higher dropout rates overall but still lower in both treatments; impact of CCT significantly larger than UCT

- **School attendance:** rate for 2009 is 8 pp (~ 10 days/year) higher in CCT arm vs. control; UCT estimates positive but not significant

- **Test scores:** across-the-board improvements in CCT, but not in UCT

- **Marriage:** 7.9 pp reduction in UCT (relative to 18% in control); 1.2 pp reduction in CCT, but not significant

- **Pregnancy:** 6.7 pp reduction in likelihood in UCT by R3

- Possible channels: schooling, income effect, sugar daddies
- Framework: many noncompliers, strong income effect among them, and small incentive effects for those in school \implies UCTs more effective

Additional Findings and Conclusion

- Heterogeneity in program impacts
 - **Age:** trade-off between CCT and UCT among early adolescents
 - **Transfer size and identity**
 - CCT: increasing transfer amounts or varying recipient has no effect
 - UCT: impact on enrollment and marriage increases as parents are offered more money, but test scores suffer
- Significant implications of type of cash transfer program on affected outcomes and cost-effectiveness
 - Necessary condition for UCTs to delay marriage and pregnancy more effectively is presence of large group of noncompliers (relative to CCT compliers), and this is confirmed in many contexts
 - However, cultural context is also important (e.g. dowry)
- Important questions for policymakers
 - Which is the more vulnerable group?
 - Is there an evident market failure behind paternalistic motivation?