Heterogenous Spillovers in Unconditional Cash Transfer

Abraham, Bechhofer, and Kim

December 5, 2018

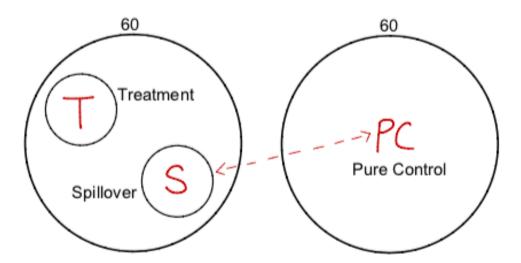
Motivation

- Househofer and Sharpiro (2016): A cluster randomized controlled trial in rural Kenya to study the effect of unconditional cash trasnfers (UCT)
- Reported improvements in asset ownership, consumption, income, subjective well-being, and female empowerment for recipients compared to non-recipients in the same village
- Study depends on comparability of treated households in the same village (it does on average).
- Our question: Does everyone experiences the same amount of spillover?

Intervention

- Households eligible for study based on a thatched roof criteria
- GiveDirectly transfered cash amounting to \$404 PPP
- Households are subsistence farmers making \$85 PPP per month
- Data from pre-treatment and post-treatment surveys

Intervention



Identifying heterogeneity

Heterogeneity in linear spillover effects:

$$Y_{i,v} = \beta_0 + \beta_1 S_v + \beta_2 D_{i,v} + \beta_3 S_v \times D_{i,v} + \varepsilon_{i,v}$$

 \triangleright $Y_{i,v}$: Outcome variable of interest

- \triangleright S_{v} : Indicator for living in a treatment village
- \triangleright $D_{i,v}$: Measure of demographic distance of individual i

Measuring Demographic Distance

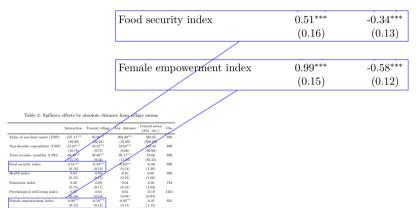
Absolute distance

$$D_{i,v} = \frac{|Y_{i,v,t=0} - \bar{Y}_{v,t=0}|}{\mathsf{SD}_v}$$

Squared deviations from village averages

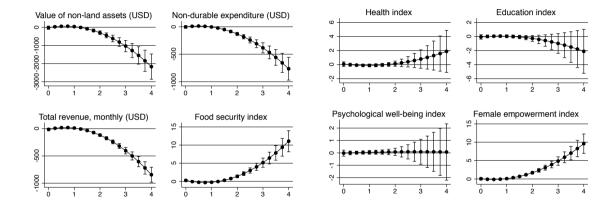
$$D_{i,v}^2 = \frac{(Y_{i,v,t=0} - \bar{Y}_{v,t=0})^2}{SD_v}$$

Spillover Effects: Linear Estimates



Nator. The unit of observation is the household for all outcome variables encope for the psychological variables index, where in it the individual. The sample is credited to co-holistating couples for the female enquerement index, and households with school-age children for the education index. All columns include village-level fined effects, control for baseline outcomes, and cluster standard errors at the village level. "disorder similification of 10 tor..." at 5 for L., and 4** at 1 Lev. level.

Spillover Effects: Quadratic Estimates



Conclusion

 Sizable spillovers for some outcomes within villages where some received cash transfers

- Spillovers are positive on average
- Spillovers vary by how demographically similar non-treated villagers are to the treated
- For those very dissimilar, suggestive evidence of negative spillovers