





The Impact of Maternal and Child Cash Transfers on Malnutrition

Evidence from the Randomized Controlled Trial of LEGACY Program (Dry Zone)

Elisa Maffioli, School of Public Health, University of Michigan

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Background

Myanmar has one of the highest stunting rate in South East Asia

29% of children are stunted (DHS, 2015)

Women lack:

- 1. Purchasing power
- 2. Knowledge on practices



Solution: Maternal and Child Cash Transfers (MCCT)

Focus: 1,000 days of life – pregnant mothers and their children under two years old.

- 1. Cash transfers
- 2. Social Behavioral Change Communication (SBCC)

Research: we measured impact of MCCT on health outcomes

Comparison

Cash transfers only Cash transfers +
Social Behavioral Change
Communication



Project Information

- Timeline: 2016-2019
- Researchers: Elisa Maffioli (University of Michigan), Erica Field (Duke University)
- Partners:









The LEGACY Program (Dry Zone)

Background

- LEGACY: Learning, Evidence Generation, and Advocacy for Catalyzing Policy
- Implemented by Save the Children
- Launched in April 2016
- Location: Pakokku, Yesagyo, Mahlaing Townships in the Dry Zone
- **Eligible beneficiaries**: pregnant women in 2nd or 3rd trimester living in selected villages



The LEGACY Program (Dry Zone)

Main elements

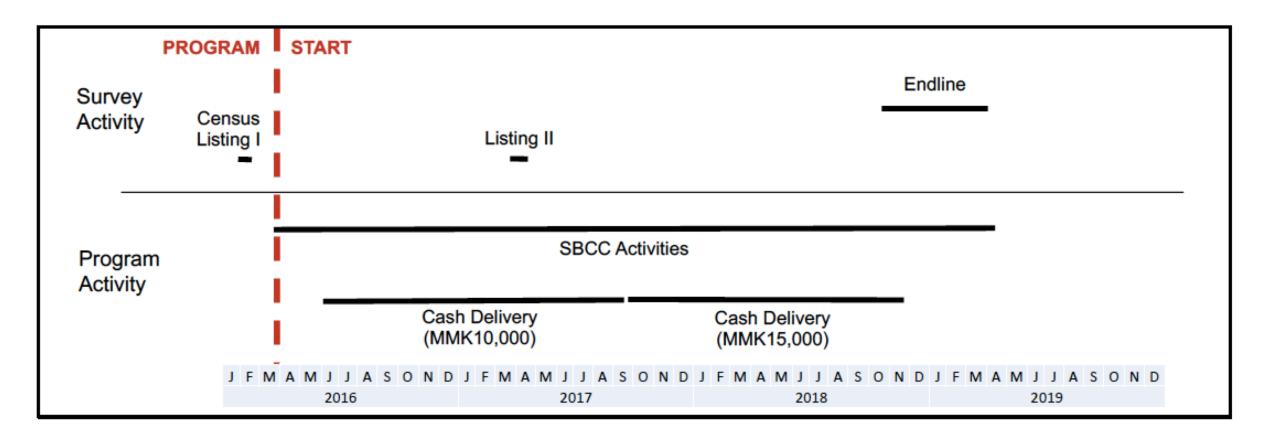
- 1. Monthly **Cash Transfers** to mothers in their last two trimesters of pregnancy until the child turns two years old ("first 1000 days")
- > Pact Global Microfinance (PGMF) delivered 10,000-15,000 MMK monthly

- 2. Monthly **Social and Behavioral Change Communication (SBCC)**, supplementing the cash transfers, covering topics including: IYCF, WASH, health care behavior and expenditures.
- Myanmar Nurses and Midwifes Association (MNMA) enrolled beneficiaries and delivered SBCC: mother groups, influential caregiver groups, individual counselling



The LEGACY Program (Dry Zone)

Timeline





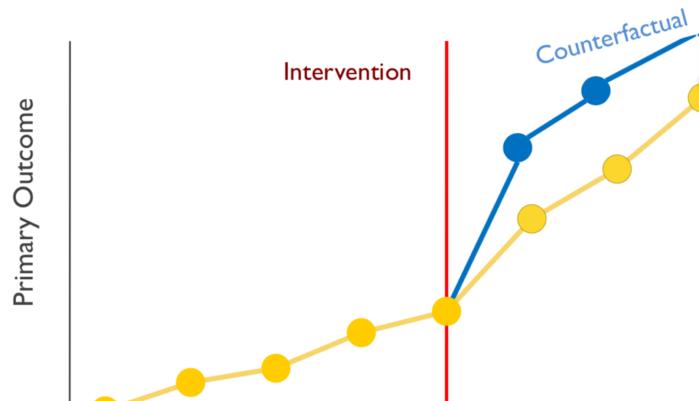


The idea of the counterfactual illustrated

Before and After Comparison

Time

Proportion of children well-nourished





Impact

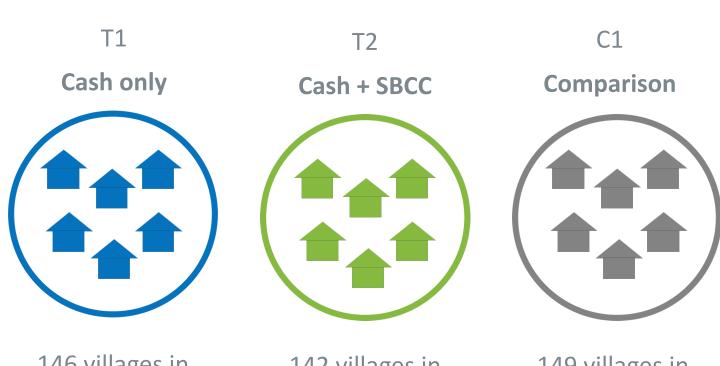
The idea of the counterfactual illustrated

PROGRAM GROUP **Outcomes for both** groups measured **Population split** for impact into two groups COMPARISON GROUP



Evaluating the LEGACY Program (Dry Zone)

Study design



146 villages in 34 clusters

1,497 women interviewed

142 villages in 34 clusters 1,860 women

interviewed

149 villages in 34 clusters

1,740 women interviewed

Total sample: 5,097 women at Endline



Studying LEGACY with a Randomized Evaluation (Dry Zone)

Outcomes

- Anthropometric measures: stunting
- Dietary diversity
- Antenatal care (ANC) practices
- Infant and young child feeding (IYCF) practices
- WASH measures
- Other health and economic indicators



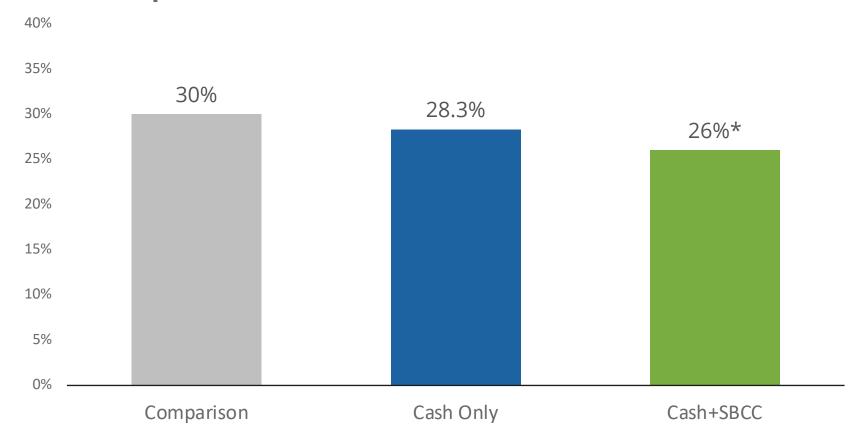


Results

Cash+SBCC Reduced Proportion of Children Stunted

No significant impacts for Cash-Only

Proportion of Children Stunted (6-29 months old)

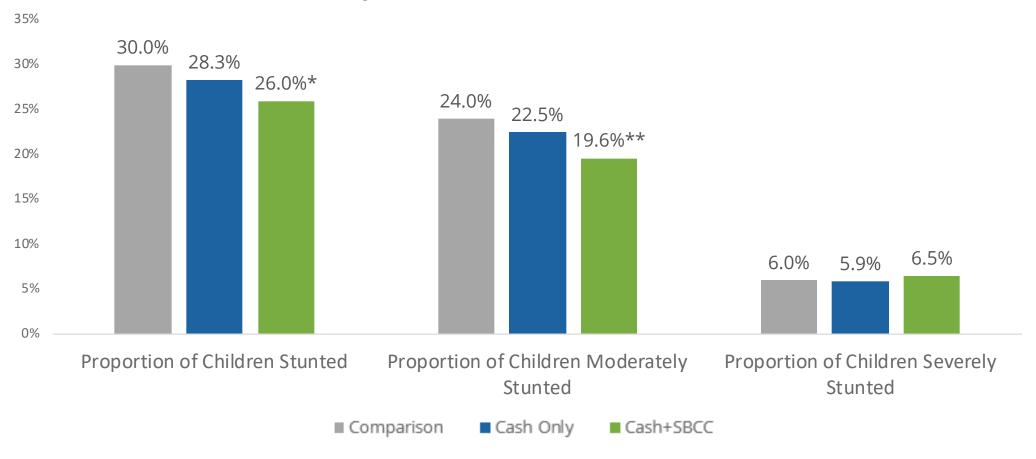




Cash+SBCC Reduced Proportion of Children Stunted

Impacts driven by moderately stunted children

Proportion of Children Stunted

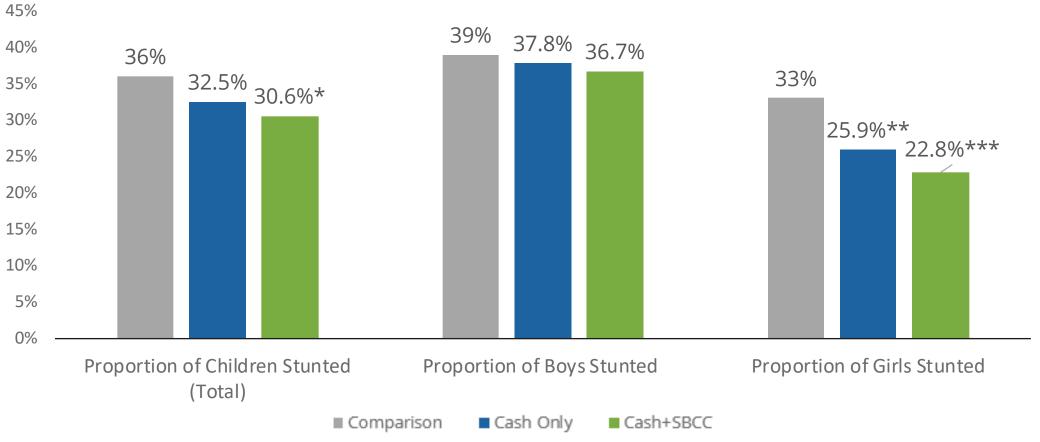




Large Impacts For Families Receiving Program Longest

Gender differences are not robust

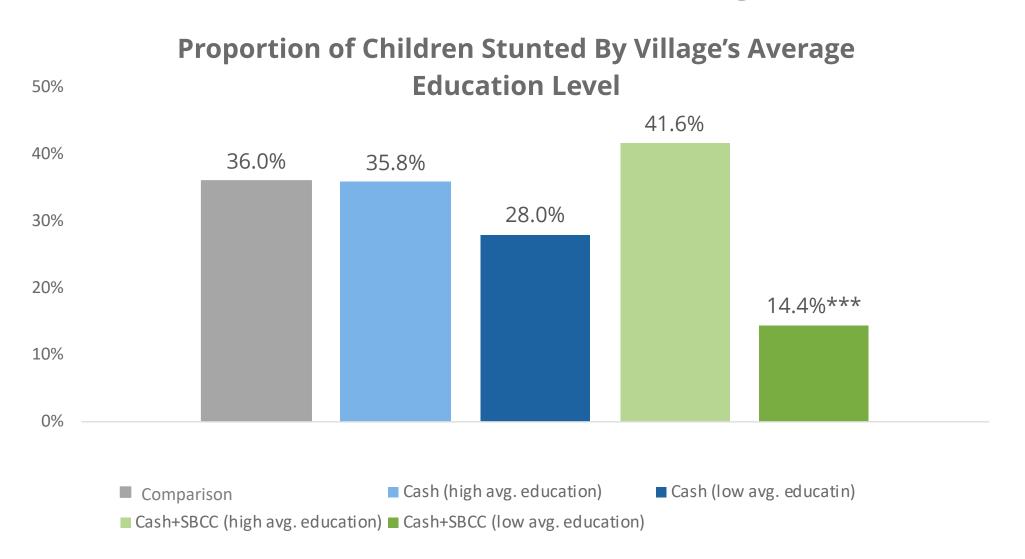
Proportion of Children Stunted Whose Families Received Program the Longest (24-29 months old)





Cash+SBCC Effects Larger For Villages with Lower Average Education

Women's level of education at village level





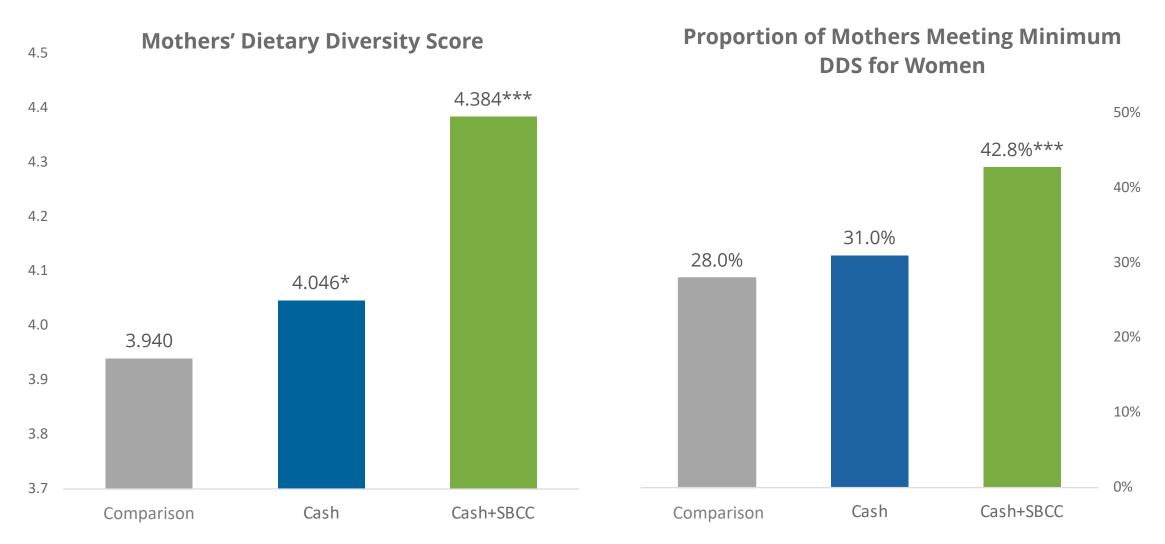
Mechanisms

Which factors do explain these changes?

- Dietary diversity
- Antenatal care (ANC) practices
- Infant and young child feeding (IYCF) practices
- WASH measures
- Other health and economic indicators



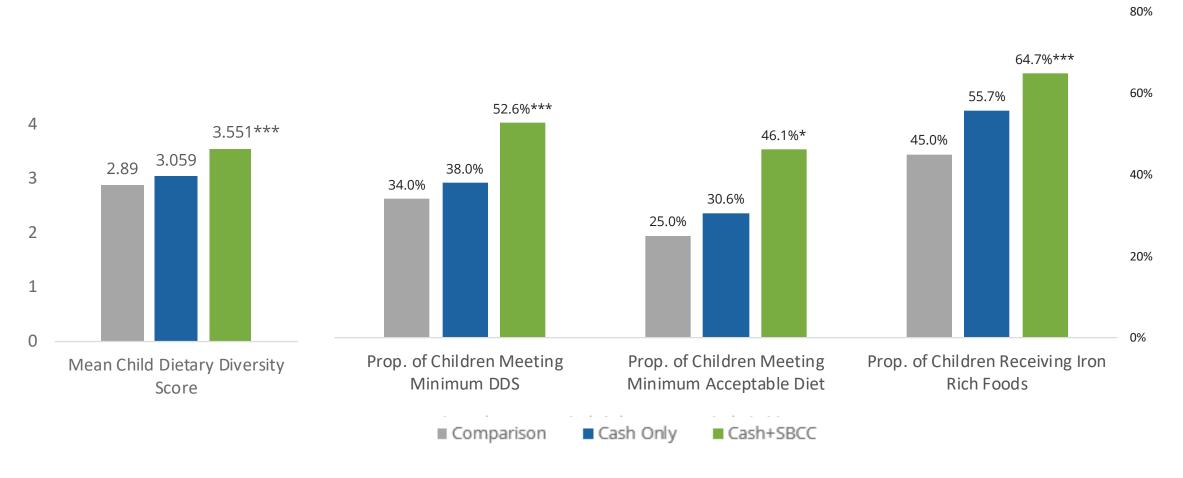
Cash+SBCC Increased Mothers' Dietary Diversity





Cash+SBCC Improved Children's Dietary Diversity

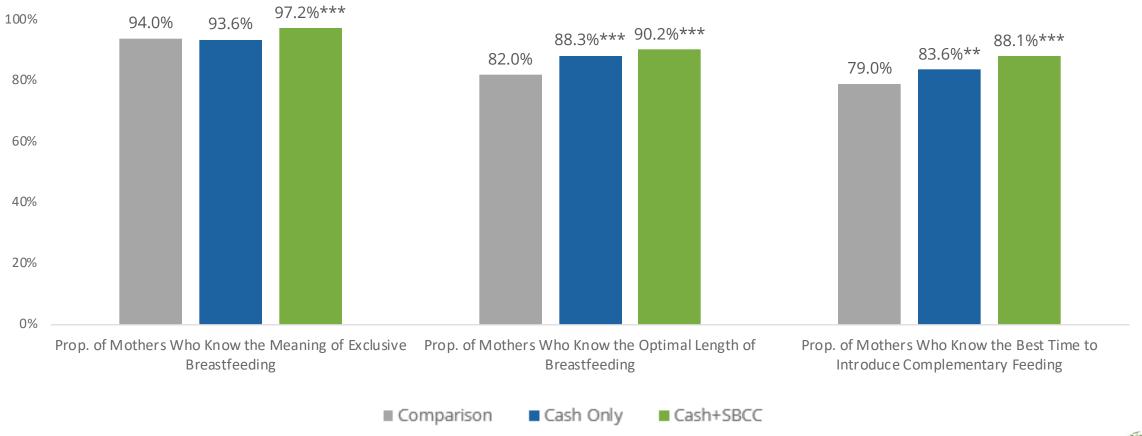
Child Dietary Diversity





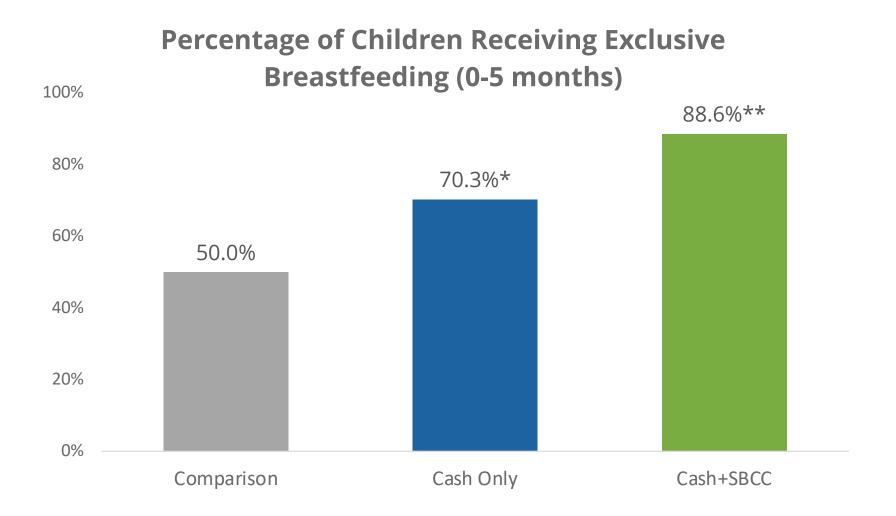
Cash+SBCC Increased Mothers' Knowledge of Breastfeeding

Women's Knowledge of Breastfeeding





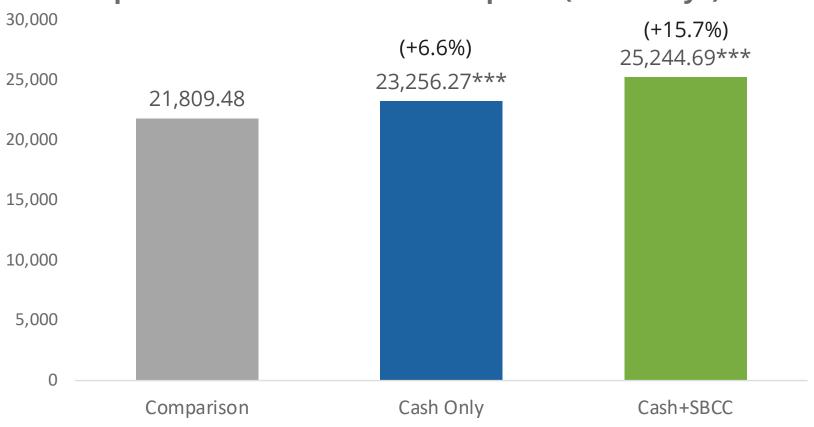
Cash+SBCC Increased Mothers' Practice of Exclusive Breastfeeding





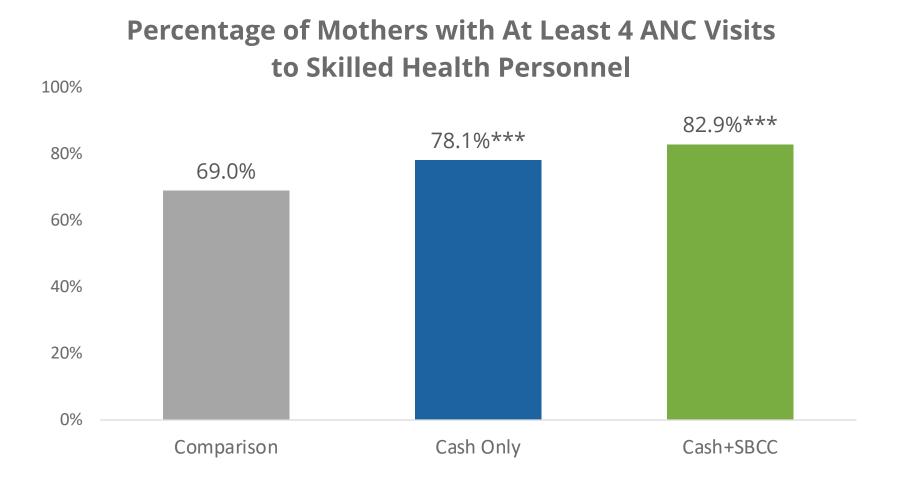
Recipients In Both Groups Spent More on Food

Expenditures on Food Consumption (last 7 days)





Mothers in Both Groups Made More Visits for Antenatal Care

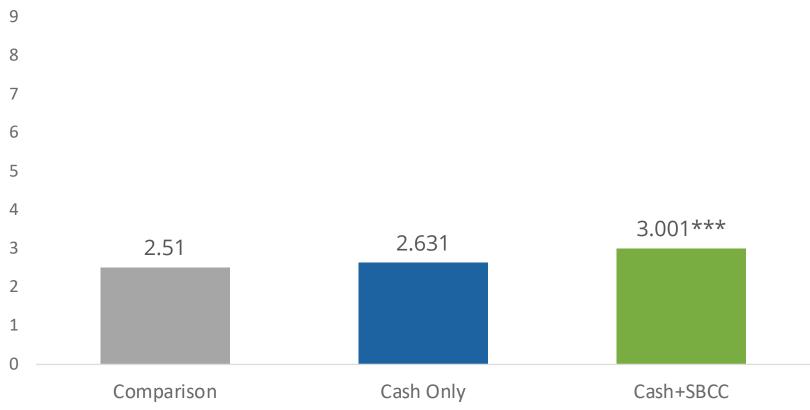




Cash+SBCC Increased Participants' Hand-Washing Behavior

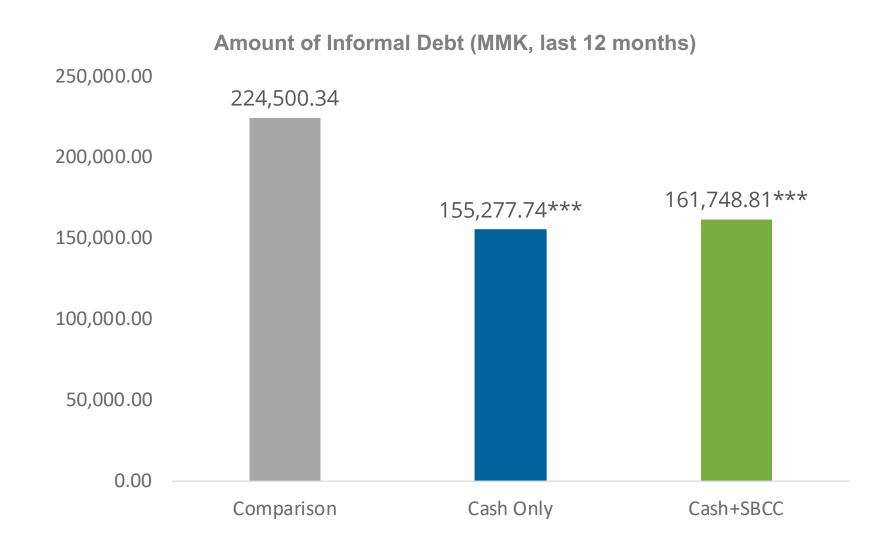
Cumulative score of all adopted practices (from 1 to 9)







Households in Both Groups Reduced Informal Debt





The Government Model

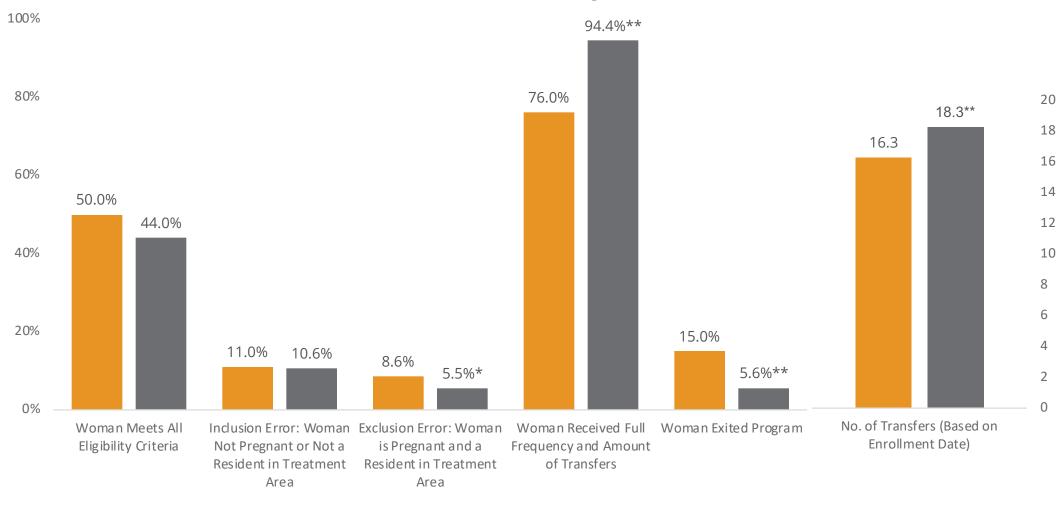
Cash delivered by midwifes

- Government Model: cash delivered by midwifes
- Microfinance Model: cash delivered by PGMF
- Pakokku township: 40 GOV villages vs 48 Cash-Only villages
- We select comparable villages in the two models



The Government Model

Cash delivered by midwifes



MFI (cash only)

■ Gov





Key Takeaways

Policy Lessons

Importance of SBCC

1. Cash transfers aiming to benefit young children should be combined with SBCC.

- According to monitoring data, more than 90% of enrolled women participated in SBCC (81% attended 5 times or more).
- 99.6% of mothers reported to be responsible to make decisions on cash transfer amount.
- Cash transfers alone may not be enough to influence mothers' behavior and children's health outcomes.



Policy Lessons

Importance of first 1,000 days of life

2. Results underscore the importance of reaching children in the first 1,000 days of life.

 Impacts of the program are more pronounced in children that received nearly 30 months of cash and SBCC exposure.





Contact

Elisa Maffioli elisamaf@umich.edu



Contact (IPA)

Ricardo Morel rmorel@poverty-action.org





