Constraints to Saving for Health Expenditures in Kenya

Researchers:

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Sector(s): Finance, Health

Fieldwork: Innovations for Poverty Action (IPA)

Location: Western Kenya

Sample: 113 ROSCAs (Rotating Saving and Credit Associations), 771 individuals

Target group: Rural population

Outcome of interest: Savings/deposits

Intervention type: Commitment devices Savings Preventive health

AEA RCT registration number: AEARCTR-0001169

Data: Download from Dataverse

Partner organization(s): University of California Los Angeles, California Center for Population Research

In many low- and middle-income countries, preventive healthcare can lead to large improvements in well-being, but households rarely save for healthcare investments. Researchers introduced four savings devices to estimate the relative importance of different potential barriers to health savings. Results indicate that just providing a safe place to keep money led to a large increase in health savings. These results suggest that simply labeling funds for a specific purpose can help households save and invest more.

Policy issue

In low- and middle-income countries, the benefits of investing in health are thought to be very high. For example, it has been estimated that 63 percent of under-five mortality could be averted if households invested in preventive health products such as bed nets or water purification products. Despite the high potential benefits of these products, investment levels remain quite low in many of these countries. One reason may be that households cannot save enough to invest in preventive products.

There are several possible barriers to savings for households. Households may not have a safe place to store savings, making it difficult to set aside cash for specific purposes. Another possible barrier is that households with limited cash may expect their friends or relatives who do have cash on hand to provide financial support. In addition, individuals may underestimate the value of preventive health products, which only provide benefits in the future. These individuals may instead prefer to spend money on more tangible items that provide immediate benefits, exhibiting a “present bias.” What barriers prevent households from saving for preventive health products, and how can these barriers be overcome?

Context of the evaluation

In Kenya, households commonly report that a lack of cash is a major barrier to investing in preventive health. To help individuals save, ROSCAs (Rotating Saving and Credit Associations) are a common social structure in Kenya. A ROSCA is comprised of a group

of individuals who make regular contributions to a common fund, which is then given as a lump sum to a different member at each meeting. Over 40 percent of adults in the district where this evaluation took place were participating in a ROSCA at the start of the evaluation.

Researchers worked with members from 113 ROSCAs in Western Kenya for this evaluation. The average ROSCA in this sample met two to three times per month and had seventeen members, 74 percent of whom were female. Members each contributed on average KES 393 (US$5.24) per month.

ROSCA members were relatively poor and had relatively low education levels; the average ROSCA member had not completed primary school. Health investments were relatively low; the average household owned fewer than two bed nets for five or more people, and only about half of households reported using chlorine to treat their water.



Woman invests in preventive health product: a bednet to prevent malaria in Kenya.

Photo credit: Aude Guerrucci.

Details of the intervention

To identify the relatively largest barriers to savings, researchers randomly varied access to a variety of saving devices specifically designed to alleviate one or more of the barriers discussed above. 113 ROSCAs, which contained 771 individuals, were randomly assigned to five groups. All participants were encouraged to save for health.

1. *Safe Box*: Members of these ROSCAs were given a locked metal box with a deposit slit at the top to save at home. Members were given the key to the lock and could take money from the box whenever they wanted, even to spend on non-health products.

2. *Lock Box*: Same as "Safe Box" except that members were not given the key and had to call the program officer in order to open the box. Once opened, the money in the box could only be used to buy health products.
3. *Health Pot*: Individuals were encouraged to create an additional pot of savings at their existing ROSCA called a "Health Pot," in which members would contribute an additional amount during regular meetings that the recipient could only spend on specific health products.
4. *Health Savings Account (HSA)*: Individuals were encouraged to save in an individual savings account that would be held at the ROSCA and could only be spent on emergency health costs.
5. *Comparison Group*: Individuals were encouraged to save for health but did not receive any savings products.

Researchers conducted follow-up surveys six and twelve months after the program was initially implemented, and conducted a longer follow-up survey with a subset of the participants about three years after distribution. These surveys measured take-up of the savings products, investment in preventive health products, and whether households were able to cope with health emergencies.

Results and policy lessons

Overall, access to these savings products led to substantial increases in preventive health investments and reduced vulnerability to health emergencies. Take-up of all four treatments was high, suggesting that many households wanted a safe place to save money for a specific goal. These results suggest that simply providing individuals with a safe place to store cash can lead to large benefits for households in contexts where income shocks are common.

*Investments in Preventive Healt*h: One year after the intervention, individuals in the *Safe Box* and *Health Pot* groups made significantly more investments in preventive health products than those in the comparison group. Relative to the comparison group, who spent about KES 257 (US$3.43) on preventive health products in one year, the *Safe Box* increased households' spending on these products by 66 percent (to US$5.70), while the *Health Pot* increased spending on these products by about 128 percent (to US$7.85). In comparison, the Lock Box had no effect on preventive health spending.

This result suggests that households were able to mentally label the money in the *Safe Box* as being for health products, and this mental labeling was sufficient to overcome self-control barriers even when households had the key to the box. Furthermore, these results suggest that households were reluctant to completely eliminate their ability to spend their savings when it was needed for other purposes, such as health emergencies.

Coping with Health Shocks: Individuals in the *Health Savings Account* group were better able to cope with unexpected emergencies. Individuals in these ROSCAs were more likely to be able to afford medical treatment for an illness compared to individuals in ROSCAs that were not offered HSAs. Providing credit and social pressure by hosting the *Health Pot* within existing ROSCAs was an effective way to increase health investments.

Additionally, while the *Lock Box*, which set aside money for preventive health products, was an ineffective way to increase investment in preventive products, the *Health Savings Account*, which set money aside for health emergencies, was highly valued. These results indicate that households were less willing to set money aside for preventive products because it was not available when needed for other purposes, including health emergencies.

Prevalence of Savings Barriers: The results suggest the presence of multiple barriers to saving. The most important one seems to be simply the lack of a safe place to save.

Second, for the minority of individuals (16 percent of the sample) who were providing financial assistance to friends or relatives at the beginning of the study were more willing to save for preventive healthcare with the *Lock Box*. This result suggests that certain individuals may be more willing to restrict the possible uses of their cash, especially when they face pressure to use it to support

others.

Finally, a minority of individuals (16 percent of the sample) care more about immediate benefits than about long-run benefits (i.e. individuals with a “present bias”) and those did not benefit from the *Safe Box* or *Lock Box*, possibly because they lacked the self-control to leave money in the *Safe Box* or needed a stronger commitment to save in the *Lock Box*. However, individuals with a “present bias” did benefit from the *Health Pot*, likely because it involved stronger commitment and social pressure to make deposits. This result suggests that certain individuals might need savings products with stronger commitment features to meet their savings goals.

Long-Run Results: Three years after the initial distribution of these different savings products, usage of the boxes, health pots, and health savings accounts remained high. Among those who received a *Safe Box* or *Lock Box*, 39 percent were still using their box to save. Among those assigned to the *Health Pot* and *Health Savings Accounts*, 48 and 53 percent respectively were still participating in that service. Moreover, some ROSCAs in the comparison group had adopted these savings products, suggesting that the products fulfilled a previously unmet demand for secure savings.

Dupas, Pascaline, and Jonathan Robinson. 2013. "Why Don‰Ûªt the Poor Save More? Evidence from Health Savings Experiments." American Economic Review 103(4): 1138-71.