The Cost of Convenience? Transaction Costs, Bargaining Power, and Savings Account Use in Kenya^{*}

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Abstract

Individuals across the world use high-transaction-cost savings devices, even when lower-cost technologies are available. High costs may help savers protect resources from the demands of others. I investigate this hypothesis by randomly assigning ATM cards to 1,100 newly-opened bank accounts in rural Kenya. These cards reduced withdrawal fees by 50 percent. While the cards increased overall account use, the positive treatment effect is entirely driven by joint and male-owned accounts. I also find that individuals with low levels of household bargaining power save less when accounts have ATM cards, while individuals with high levels of household bargaining power save more.

Keywords: saving; intra-household bargaining; transaction costs

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1 Introduction

In spite of notable recent progress towards financial inclusion, two billion people around the world are still unbanked (Demirgüç-Kunt et al. 2015). This lack of access does not reflect an inability or unwillingness to save; low-income households in developing countries use a wide variety of informal and semi-formal savings devices despite the often-high costs involved (Collins et al. 2009). As a result, most efforts to increase formal financial access have focused on reducing transaction costs, e.g. via "no frills" accounts, agency banking, or integrating banking services with mobile money. Yet lowering transaction costs may not always be beneficial, especially for certain vulnerable groups: when individuals face interpersonal constraints to saving, accounts that are costly to access could help preserve resources in the face of transfer requests from spouses, extended family, or other community members.¹ In such a context, lowering fees and increasing liquidity could theoretically reduce the use of formal accounts, but there is limited evidence on how such constraints mediate demand for savings products in practice.

I conducted a field experiment in rural Kenya to test whether intrahousehold constraints hamper demand for reduced-cost savings products. In the experiment, a subset of 1,114 newly-opened bank accounts owned by 749 married couples were randomly selected to receive ATM cards free of charge. Without the ATM cards, the bank accounts featured an over-the-counter withdrawal fee of \$0.78, which was substantial in the experiment's rural Kenyan context. The ATM cards reduced this fee by 50 percent and also let card holders make withdrawals outside of bank hours.² Traditional models of savings behavior predict that the ATM treatment should increase use of formal accounts. However, when individuals face inter-personal pressure to share savings, this need not be the case – here the ATM treatment could even *reduce* formal account use. If pressure to share comes from spouses, these concerns could be especially pressing for low-bargaining-power individuals.

To see this, consider the following example: suppose a husband and a wife do not agree on how to spend their income. The wife knows that if she saves her money at home, her husband (who is the primary financial decision-maker) will simply take her savings and purchase goods that she does not value. Instead, she chooses to deposit her savings into a secure, individual bank account. When the husband asks for a transfer, she can refuse him,

¹Inter-personal savings constraints could be driven by other members of the household or individuals outside the household. For evidence that intra-household concerns impact savings behavior see Anderson and Baland (2002) and Schaner (2015a). For evidence that pressure from other community members impacts financial choices see Jakiela and Ozier (2016) and Baland, Guirkinger, and Mali (2007).

²While ATM cards were available to account-holders in the control group, these individuals had to pay a \$3.75 fee to acquire an ATM card. Given the card's cost, the intervention increased ATM card takeup by 86 percentage points.

since going to the bank would require an extra trip to town and a withdrawal would incur a large fee. Suppose that she receives an ATM card for her account and, as in the experiment, her husband is aware of this – refusing her husband's requests may become more difficult, since the cost of withdrawing is now lower and her husband could use her card to make the transaction himself. This could make saving at the bank less attractive to her.

In practice, I find that the ATM treatment increased overall account use, especially on the intensive margin – ATM cards increased the total number of transactions by over 60 percent in both the short and long run. But decomposing treatment effects by account type reveals important heterogeneity. Namely, the ATM treatment had large impacts on joint accounts and accounts owned by men, but had no impact on female-owned accounts. This is consistent with the hypothesis that intra-household pressures drove some women to stop using their accounts when an ATM card was made available.

In order to test this hypothesis more directly, I proxy the relative bargaining power of husbands and wives using within-couple differences in baseline age, education, literacy, and income. The assumption is that this proxy is positively correlated with within-couple differences in outside options, which in turn determine bargaining power in the marriage (Browning et al. 2011). I find that both men and women with below-median bargaining power use their new bank accounts less when an ATM card is provided for free, while both men and women with above-median power use their accounts more. The negative, statistically significant treatment effect for low-bargaining-power individuals underscores the idea that the ATM card was actually a disamenity for this group. These findings are robust to allowing for heterogeneous treatment effects with respect to individual age, education, literacy, and income, thereby identifying the bargaining power effect solely with withincouple differences. The results are also robust to allowing for heterogeneity with respect to time inconsistency, as well as a wide range of other demographic characteristics. Hence, I find no evidence that my results are driven by self control problems, rather than inter-personal savings constraints.

It is not possible to completely rule out the hypothesis that my results are driven by some unobservable factor correlated with the bargaining power proxy. However, the experimental design affords a novel specification check: in addition to the ATM treatment, all study accounts were randomly assigned a temporary interest rate ranging from 0 to 20 percent. Like the ATM treatment, higher interest rates significantly increased account use. Unlike the ATM treatment, the interest rates had no impact on transaction costs or account security. The bargaining power hypothesis therefore implies that heterogeneous effects with respect to account use should only be present for the ATM treatment. On the other hand, if the bargaining power proxy is simply identifying people who were especially use elastic, then heterogeneous effects should be present for both interest rates and ATM cards. Consistent with the initial hypothesis, I find no heterogeneous treatment effects with respect to the interest rate.

Aside from the unobservables issue discussed above, it is important to highlight two other limitations to my results. First, I rely on a rough (though commonly used in the literature) proxy of intra-household decision making power. During the endline survey I conducted an experimental decision-making game to help validate several proxies of bargaining power available at baseline. My preferred proxy based on spousal demographic differences robustly predicts financial choices at endline and performs better than baseline self-reported decisionmaking power. The demographic proxy does not, however, predict experimental choices conditional on gender. But to the extent that the demographic proxy provides a noisy measure of bargaining power, this should work to attenuate my results. Second, my results are estimated off a sample that expressed *ex-ante* demand for a high-cost savings product; and the experiment was specifically designed so that husbands and wives directly observed one another's ATM treatment status. While this makes my setting particularly well-suited for studying intrahousehold issues, it also means that my results may overstate the importance of intrahousehold constraints in more general populations and contexts. Additional research is needed to better understand how individuals respond to such concerns in less stylized settings.

My results contribute to a growing literature on how individuals in developing countries utilize formal financial services. To date, most research has focused on either measuring the overall effect of giving individuals access to services (e.g. Dupas and Robinson 2013; Prina 2015; Kast and Pomeranz 2014) or on the effect of accounts (or account enhancements) meant to address *intra*-personal savings constraints like time inconsistent preferences.³ I build on this literature by studying the implications of *inter*-personal constraints, with a focus on how they drive demand for costly savings devices. My results underscore earlier work by Anderson and Baland (2002), who find that proxied household bargaining power predicts use of rotating savings and credit associations (ROSCAs) and Schaner (2015a), who finds that married couples with greater heterogeneity in savings preferences are more likely to make use of inefficient savings devices. Finally, most existing literature that studies reducing banking transaction costs focuses on incentives for or assistance with account opening (Cole et al. 2011; Dupas and Robinson 2013; Dupas et al. 2012). Instead, I estimate the effect of reducing the cost of making actual banking transactions on already-available formal accounts.⁴

³For work on time inconsistency and commitment accounts see Ashraf et al. (2006b) and Brune et al. (2013). For time inconsistency and peer monitoring see Kast et al. (2013). For limited attention and reminders see Karlan et al. (2013).

⁴The cost reduction that I study is more closely related to Ashraf et al. (2006a), who find that reducing

Overall, my results suggest that technologies meant to reduce the cost of formal financial services may have a perverse effect when individuals are subject to outside demands on their resources. This has important implications for the design of savings products in the developing world, especially since women (who are usually at a bargaining power disadvantage within the household) are over-represented among the unbanked. The question is how to provide the right level of security and illiquidity without burdening the consumer with transaction costs. Additional research and product development that explicitly focuses on women's unique needs may be especially important for meeting this challenge.

The remainder of the paper is structured as follows: Section 2 describes the experimental design and the data, Section 3 presents the main results, Section 4 explores the roots of the account type differences that I observe, and Section 5 concludes.

2 Experimental Design and Data

2.1 Experimental Design

Experimental Context The experiment was conducted between July and September 2009 in Busia and Teso South districts, in communities surrounding the commercial trading center of Busia. Busia is well-served by the formal banking sector, hosting over six banks at the time of field activities. The financial partner for this study is Family Bank of Kenya. At the time of field activities the bank had over 600,000 customers, 50 branches throughout the country, Ksh 13 billion (or \$167 million at an exchange rate of Ksh 80 per \$1) in assets, and actively targeted low- and middle-income individuals as clients. All study participants were offered a new low-cost bank account called the Mwananchi Account (mwananchi means "citizen" in Swahili). At the time of the experiment, traditional Kenyan bank accounts featured large minimum balances (e.g. Ksh 1,000 or \$12.50) and often charged regular monthly maintenance fees. In contrast, the *Mwananchi* Account had a minimum operating balance of just Ksh 100 (\$1.25) and had no fees apart from a withdrawal fee of Ksh 62 (\$0.78) over-the-counter and Ksh 30 (\$0.38) with an ATM card. Like most other current accounts on the market, the *Mwananchi* Account did not pay any interest. The fee for an ATM card was Ksh 300 (\$3.75), which was prohibitively costly for most households in my sample – less than 10 percent of account-holders chose to pay this fee on their own.

The only Family Bank ATM in Busia was located outside the bank branch and did not

the cost of making deposits through the use of door-to-door deposit collectors increases savings balances in the Philippines. My experiment differs from this work in that the ATM treatment affected the cost of making *withdrawals* rather than deposits, which has very different implications for accessibility and security of savings.

accept deposits (though some Family Bank ATMs in other towns did have deposit-taking capabilities). Hence, the primary benefit of the ATM card was the reduction in withdrawal fees, followed by the convenience of being able to make withdrawals outside of bank hours. Although social norms in the study area strongly reinforce the notion that the male is the head of the household, women are economically active and often travel unsupervised outside the home – indeed, female market vendors in Busia can often be found selling their wares at night by firelight. Hence, both genders should have been able to take advantage of the "convenience" aspect of ATM cards.

Sample Selection Appendix Figure A1 illustrates the timeline of experimental activities. At the outset of the study, I identified communities surrounding 19 primary schools, which were located within 8 miles of Family Bank's Busia branch. Trained field officers recruited married couples in communities surrounding these schools. Enumerators moved through communities with local guides, and visited the homes of all co-resident married couples. These couples were asked if they currently had any accounts with Family Bank, and if not, whether they would be interested in opening a new *Mwananchi* Account. All co-resident couples who (a) had no pre-existing Family Bank accounts, (b) expressed interest in opening at least one account, and (c) were in possession of their national ID cards were issued an invitation to an account opening camp the following day.⁵

Phase 1 Randomization: Interest Rates When couples arrived at the baseline account opening session, they were registered and then participated in three independent drawings for temporary six-month interest rates: one for a joint account, one for an individual account for the husband, and one for an individual account for the wife. Joint accounts could earn 4, 12, or 20 percent interest with equal probability while individual accounts could earn 0, 4, 12, or 20 percent interest with equal probability. Interest was paid on the first six months' average daily balance and balances earned no interest thereafter. Participants were aware of the temporary nature of these interest rates from the outset of the study. Following the interest rate draws, the couples were separated for a baseline survey and were then reunited to decide which accounts they wished to open. Couples could open anywhere from zero to all three accounts. To maximize takeup, each new account was pre-funded with the Ksh 100 minimum operating balance. This amount could not be withdrawn by participants – it simply made opening an account costless.

⁵National ID cards are required to open a bank account in Kenya. Most Kenyans have national ID cards, which are also required to register to vote, formally marry, and purchase or sell land.

Phase 2 Randomization: ATM Cards All told 749 couples opened 1,114 ATM-eligible accounts, with all couples opening at least one account.⁶ Once all the account opening paperwork was completed, subjects participated in another set of lotteries for free ATM cards. Here an independent drawing was conducted for each newly-opened account.⁷ The free ATM selection probability was 0.15 for the first 6 experimental sessions (193 accounts) and 0.25 for the remaining 27 experimental sessions (921 accounts). Couples sat together for both the interest rate and ATM card draws, and were therefore able to observe one another's offers.

Since the majority of respondents did not have prior experience with bank accounts, enumerators carefully explained how the accounts and ATM cards worked, as well as the fees associated with the accounts and cards. When an opened account was randomly chosen to receive a free ATM card, respondents were informed that the Ksh 300 ATM card fee would be paid on their behalf, and that they could retrieve their card at the bank branch. Due to technical constraints on the part of the bank, only one free ATM card was issued for joint accounts. In this case, it was up to the couple to decide how to allocate the card between spouses.⁸

ATM cards could impact observed account use through both a direct effect (conditional on opening an account, providing an ATM card for free changes patterns of account use) and a composition effect (the pool of open accounts changes). The rationale for randomizing ATM cards conditional on account opening was to study the direct effect absent a composition effect. This is especially useful for studying drivers of demand for high-cost savings devices, since I begin with a sample of individuals who chose to open a high-cost account and then observe how this group responds to a cost reduction. The downside of this strategy is that I cannot estimate extensive margin effects of the ATM treatment. Thus I necessarily underestimate the impact of ATM cards on overall rates of bank account ownership and use.⁹

⁶Another 30 couples opened a "both to sign" joint account. This account required that both couples sign off on any withdrawal at the bank, and was therefore ineligible for an ATM card. These 30 couples are not included in my analysis of ATM treatment effects, but are included in my analysis of interest rates.

⁷A subset of individual accounts was also randomly selected to be eligible for an information sharing intervention. The details of this intervention are described in Schaner (2015a). I do not discuss this intervention further here, as it has no impact on the results.

⁸I do not have data on how couples shared ATM cards. However, given gender norms in this part of Kenya it is likely that men retained primary control of cards for joint and male-owned accounts.

⁹Even so, a rough back-of-the-envelope calculation, detailed in Appendix A, suggests that my experimental sample is meaningfully large relative to the banked population in the study area. I estimate that at least 11 percent of married couples in the experimental catchment area opened accounts under the auspices of this project. Given rates of pre-existing bank account ownership in my sample, this suggests the experiment increased rates of married couples' formal account ownership by 38 percent or more, which represents a substantial increase in access.

2.2 Data

I use three primary data sources in this analysis: (1) survey data from one-on-one baseline surveys conducted during the account opening sessions, (2) three years of administrative data on account use from the bank, and (3) data from a follow-up survey conducted three years after the baseline. Spouses were interviewed separately at both baseline and endline.

The baseline collected basic demographic information, as well as information on household decision-making, income, savings practices, and individual discount rates and time inconsistency. The discount rate elicitation procedure warrants special mention here: as detailed in Appendix B, the baseline survey asked individuals to choose between different amounts of money at different times in order to elicit time preferences. To incentivize the questions, each respondent was given a one in five chance of winning one of his or her choices. The majority (78 percent) of respondents winning a "cash prize" chose to have it deposited into a newly-opened bank account.¹⁰ As a result, cash prize selection impacted rates of account use – I therefore explicitly control for this throughout the analysis.

The endline included the same basic questions as the baseline, and more detailed modules focused on income, savings, and household decision making. The endline also incorporated an experimental module designed to measure intrahousehold bargaining power. The survey targeted all individuals who participated in the original study, as well as any new spouses of the original participants. The enumerators were able to track 91 percent of the original sample and managed to interview at least one original spouse in 97 percent of the couples.

The administrative data from the bank include a three-year history of all transactions posted to each experimental account. I use this information to construct all my measures of experimental account use. Note that the joint account transactions data does not specify the identity of the person performing the transaction – as a result, I cannot know when joint account transactions were conducted by husbands versus wives.

2.3 Sample Characteristics and Randomization Verification

Table 1 presents individual-level summary statistics for the 749 couples who opened ATMeligible accounts. Husbands average eight years of schooling, while their wives average just under six years. While most men are literate (85 percent), one third of women cannot read and write. On average, men reported earning Ksh 1,662 (about \$21) in the past week, while women reported earning Ksh 814 (\$10). Median reported weekly incomes are substantially lower, at Ksh 700 and Ksh 300 for husbands and wives respectively.

¹⁰The remaining 22 percent of cash prize winners chose to pick up their winnings at the IPA field office, which was also located in Busia township.

Ninety-eight percent of respondents reported using at least one savings device at baseline, with saving at home and saving with rotating savings and credit associations (ROSCAs) most common. Formal savings devices were less popular. Most participants did not have a preexisting bank account at baseline, and women were disproportionately unbanked – while 32 percent of men reported owning a bank account, just 12 percent of women reported the same. Eight percent of men and 1 percent of women used savings and credit co-operatives (SACCOs), which tend to be organized around higher paying professions like teaching and commercial farming.

Although gender norms in this part of Kenya squarely position the husband as the primary decision-maker and head of household, both men and women were most likely to report that the wife did most of the household's saving. This social norm regarding saving is not unique to Kenya and can be found in many developing countries (Bruce 1989). However, this does not necessarily imply that women are the primary *decision-makers* regarding how much to save – just 8 percent of men and 19 percent of women state that the wife makes most decisions about how to spend money.¹¹ Finally, approximately half of respondents gave time-inconsistent responses to the baseline discount factor elicitation questions, with patient now-impatient later responses somewhat more common than quasi-hyperbolic reversals. This finding is not unique to this study and has been observed in other areas of Kenya (Dupas and Robinson 2013; Dupas and Robinson 2014), Malawi (Brune et al. 2013), India (Shapiro 2010), and Mali (Dean and Sautmann 2014).

Appendix Table A1 confirms that the randomization worked well, with significant differences appearing at a rate consistent with random assignment. P-values from a joint test of a relationship between the treatments and the demographic characteristics listed in Table 1 range from 0.23 to 0.94.

3 Overall Impacts of ATM Cards

3.1 Overview of Account Opening and Use

Table 2 shows that participating couples opened 1,114 ATM-eligible accounts, 486 of which were joint accounts and 628 of which were individual accounts. The most common choices were to open a single joint account (55 percent of couples) or two individual accounts (30 percent of couples). All couples opened at least one account. Thus one thing to keep in mind

 $^{^{11}}$ The endline survey asked specifically about decision-making regarding how much to save. The results are very similar – just 13 percent of men and 18 percent of women state that the wife is the primary decision-maker, while 35 percent of men and 31 percent of women state that the husband is the primary decision-maker.

when interpreting treatment effects is that the set of couples who opened joint accounts is different from the set of couples who opened individual accounts, while the set of couples who opened men's individual accounts is nearly the same as the set of couples who opened women's individual accounts.¹²

Before moving on to the analysis of treatment effects, Table 3 summarizes account use for the free ATM control group. Column 1 shows that just 22 percent of accounts were "active" in the short term, meaning that they received at least one deposit (not including a cash prize deposit) within the first six months. I focus on the first six months as a measure of short-run activity because (a) this was the period during which most accounts could also earn promotional interest and (b) the bank classified an account as "dormant" after six months of inactivity.¹³ In the long run many accounts were abandoned – only 7 percent of accounts were used in their third year. While some of this is exit from the formal banking sector, account abandonment may also reflect the fact that Kenyan financial services changed rapidly during the three years following the baseline, with growth in low-cost formal bank accounts, agency banking, and mobile money-based banking services (FSD Kenya 2009; FSD Kenya 2013). Indeed, even though the vast majority of experimental accounts were abandoned, 68 percent of respondents reported that they owned a bank account at endline.

In terms of the intensive margin, accounts that were active within the first six months saw an average of 3 deposits (valued at Ksh 5,921 or \$74) in the first six months, with another 5 deposits valued at Ksh 25,726 in the next 2.5 years.¹⁴ Withdrawals occurred at slightly lower, but similar rates – as a result, the average active account had a closing balance of Ksh 1,345 after six months and Ksh 1,197 after three years.

3.2 Do ATM Cards Impact Overall Account Use?

One contributing factor to the relatively low rate of account use in my sample could be transaction costs – I now ask whether reducing these costs through ATM cards increased account use.

For ease of exposition the following analysis focuses on two summary measures of account use: the total number of transactions and a standardized index of account use, which

¹²Appendix Table A2 shows that couples who opened a joint account live further away from the bank and have men with relatively more proxied bargaining power. Couples who opened individual accounts are better educated, less likely to be subsistence farmers, more likely to have been banked at baseline, have men with relatively less bargaining power, and live closer to the bank.

¹³Dormant accounts could be reactivated at no cost, but this required filling out a form at the bank branch.

¹⁴All account use variables denominated in Kenyan shillings, as well as the number of deposits and withdrawals, are top-coded at the 99th percentile among open accounts. I maintain this convention throughout the paper.

aggregates an indicator for account activity, the total number of deposits, the total number of withdrawals, the value of deposits, and the value of withdrawals. Here I follow Kling et al. (2007): first each index component is standardized relative to the reference group (open accounts that are neither eligible for a free ATM nor a cash prize). Then I take the average of the components to form the index. Since the promotional interest rates were only active for six months, which is also the time it takes for an inactive account to go dormant, I follow Table 3 and separately study outcomes measured in the first six months following account opening versus measures of use over the next 2.5 years. I also create one "overall summary" index, which includes all components in both the short and long-run account use indices.

Figure 1 gives a graphical overview of the impact of ATM cards. Each panel shows the CDF of the overall summary index of account use by account type and treatment group. For both joint and husband's accounts (Panels A and B), the CDF for the treatment group is everywhere below that of the control group, suggesting that the ATM card treatment increased account use. In contrast, Panel C shows that the ATM treatment had little-to-no impact on the use of women's accounts.¹⁵

Table 4 tests for significance of these differences by estimating the impact of ATM cards on the number of bank transactions and the standardized use index. Appendix Table A3 shows treatment effects for index components. All regressions are of the following form:

$$y_{ac} = \beta_0 + freeatm'_{ac}\gamma + acct'_{ac}\lambda + cash'_{ac}\eta + z'_{ac}\delta + \varepsilon_{ac}$$
(1)

where y_{ac} is the outcome of interest for account *a* owned by couple *c*, $freeatm_{ac}$ is a vector of treatment dummies, $acct_{ac}$ includes account type dummy variables, $cash_{ac}$ includes dummies for husband and wife cash prize receipt, as well as their interactions with the account type dummies, and z_{ac} includes interest rate dummies and a dummy variable for the first six experimental sessions (since ATM selection probability was lower for these sessions). All regressions are limited to open ATM-eligible accounts, since ATM cards were randomly allocated conditional on account opening.

The first column of Table 4 reports the first stage – the impact of the treatment on whether or not an account had an active ATM card. The vast majority (over 90 percent) of account-holders chose not to purchase an ATM card on their own. Consequently, all the first stages are substantial and highly significant. I therefore focus on the reduced-form impact of the ATM card treatment for the remainder of the analysis.

The first specification (Panel A) estimates a single pooled treatment effect for all three

¹⁵To account for the fact that cash prize receipt is negatively correlated with the ATM treatment for women's accounts, observations in Figure 1 are weighted so the share of cash-prize eligible accounts is balanced among the free ATM and no ATM groups.

types of accounts. Overall, the ATM treatment led to 0.53 more transactions in the first six months (a 62 percent increase versus the control group) and 2.1 more transactions over the next 2.5 years (a 68 percent increase). The standardized index shows a 0.16 and a 0.19 standard deviation increase in account use in the short and long run respectively. Appendix Table A3 shows that the treatment operated largely on the intensive margin: while the share of accounts that were active in the short run did not meaningfully increase, the treatment increased both the number and value of deposits and withdrawals. Point estimates for the amount withdrawn are very similar to those for the amount deposited. Thus the primary impact of the ATM card was not to generate *new* bank savings, but rather to change how frequently individuals accessed and updated these savings. These changes could reflect both welfare gains (e.g. if individuals in the treatment group were better able to time purchases and smooth consumption) and welfare losses (e.g. if individuals with the ATM card made more withdrawals than they would have liked due to self-control problems or transfer requests from others).

The next specification (Panel B) estimates the impact of the ATM treatment separately by account type. Here I interact the "free ATM" dummy with dummy variables for men's and women's individual accounts (hence the free ATM main effect reports the impact of ATM cards for joint accounts). Although this specification is somewhat underpowered, point estimates for joint and men's accounts are positive, with estimated impacts for male accounts (insignificantly) larger in the short run and impacts for joint accounts (insignificantly) larger in the long run. In contrast, estimated impacts on accounts owned by women are negative and close to zero. To maximize power, Panel C asks whether the treatment effect for women's accounts differs from the pooled effect for joint and men's accounts. I am able to reject the null of no difference at the 5 percent level for the number of transactions and the 5 or 10 percent level for the standardized index. Furthermore, the estimated impacts on joint/men's account use are always statistically significant and meaningful in magnitude. For example, ATM cards nearly doubled the number of deposits in both the short and the long run. Appendix Table A4 shows that the impact of the ATM cards on open accounts is remarkably similar to the impact of the 20 percent interest rate on all potential accounts.¹⁶

Although the ATM cards had meaningful effects on bank account use, Appendix Table A5 finds more muted evidence that the ATM treatments impacted broader financial and economic outcomes at endline. Although I do not find any significant impacts on overall assets, debt, or income (which is not entirely surprising, given that these measures are very noisy), I do find some evidence that increased use of formal savings devices reduced demand

¹⁶See Schaner (2015b) for a detailed analysis of the interest rate subsidies on bank account use and longer-run economic outcomes.

for informal savings devices (namely ROSCAs).

Overall, the results in Table 4 present a puzzle: why do women's accounts respond to the ATM treatment differently than joint and men's accounts? It is not the case that individual accounts simply don't appeal to women – Table 3 shows that all three types of accounts are utilized at relatively similar rates in the control group. Another possibility is selection driven by account opening. This also seems unlikely – the set of couples who opened a man's individual account is essentially the same as the set of couples who opened a woman's individual account (86 percent of couples who opened an account for the husband also opened an account for the wife and 89 percent of couples who opened an account for the wife also opened an account for the husband). This suggests that at least some of the difference in treatment effects is instead driven by individual characteristics (like household bargaining power) that differ systematically between husbands and wives. The next section explores this idea, with a focus on the bargaining power hypothesis.

4 Exploring Mechanisms

4.1 Bargaining Power and Account Use

Given that women in my study area tend to have less bargaining power than men, the gender difference in account use could be driven by intrahousehold concerns. To study this issue more directly, I conjecture that the ATM treatment was especially unattractive to individuals with low bargaining power.¹⁷ If this conjecture is correct, accounts owned by individuals with greater bargaining power should respond more positively to the ATM treatment. If intrahousehold concerns were especially pressing, the ATM treatment could even have a *negative* impact on individuals with low levels of bargaining power.

To test this hypothesis, I use intrahousehold differences in demographic characteristics to proxy household bargaining power. I follow a large body of theoretical and empirical literature in assuming that demographic and economic characteristics that improve an individual's utility outside the marriage (or in a non-cooperative equilibrium within the marriage) translate into greater household bargaining power.¹⁸ In particular, I assume that having higher

¹⁷It is important to caveat that the relative attractiveness of ATM cards need not monotonically increase with bargaining power. Women with very low bargaining power could simply forfeit control of accounts to their husbands regardless of the ATM card, for example. See Anderson and Baland (2002) for an illustration of the non-linearity argument. Since there is no evidence of a nonlinear relationship in my data, I focus on the distinction between high and low bargaining power to streamline the empirical work.

¹⁸Examples include Manser and Brown (1980), McElroy and Horney (1981), Lundberg and Pollak (1993), Thomas (1994), Lundberg et al. (1997), Browning and Chiappori (1998), Anderson and Baland (2002), Angrist (2002), Chiappori et al. (2002), and Lafortune (2013).

income, having more years of education, being more literate, and being older than a spouse correlate with greater relative bargaining power.¹⁹ I standardize each of these four variables and then proxy individual *i*'s relative bargaining power by the average difference between *i*'s values for these variables and *i*'s spouse's (-i) values for these variables:

$$power_{ic} = \frac{1}{4} \sum_{x \in X} \left(x_{ic} - x_{-ic} \right)$$

Note that this proxy is missing for 101 couples/13 percent of my sample. Fifty-one of these couples had a missing response for at least one of the components in $power_{ic}$. The proxy is set to missing for the other couples because they may not have been truly married at baseline.²⁰ Appendix Table A6 shows that the treatments are uncorrelated with endline attrition, and that all treatments except "free ATM, wife's account" are unrelated to whether or not a couple was confirmed to be married. In the analysis that follows I explicitly control for unconfirmed couples, but my results are robust to either omitting this control or simply dropping all unconfirmed couples from the analysis.

Figure 2 plots the histogram of $power_{ic}$, or "the demographic proxy", among the 678 confirmed couples for whom $power_{ic}$ is non-missing. I only graph male relative bargaining power, since the histogram for women is a mirror image of the histogram for men by construction. As expected, husbands have more proxied bargaining power than wives – just 17 percent of women have greater proxied power than their husbands and the median difference between wives and husbands is -0.34 standard deviation units.

But is the demographic proxy the best available baseline measure of bargaining power? The baseline survey also directly asked individuals about who in the household made decisions about how to spend money and who did most of the saving in the household. Self-reported decision-making measures like these have also been widely used as indicators of bargaining power (see Doss (2013) for a review). It is not *ex-ante* obvious which proxy should be preferred – so in order to shed light on the suitability of the different baseline proxies, the endline survey included an experimental module in which couples made choices

¹⁹The reasoning for the first three is clear. It is less clear that being older than a spouse should increase bargaining power (for example, younger spouses may have a greater chance of meeting another high quality match if they reenter the marriage market). However, in many developing countries younger wives have difficulty challenging the authority of their older husbands (Jensen and Thornton 2003). Moreover, in the 2012 Kenya Demographic and Health Survey the spousal age gap is significantly negatively correlated with age at first marriage, a better proxy of bargaining power that was not included in my baseline survey (the correlation between the spousal age gap and age at first marriage is -0.20).

²⁰The survey team verified the marital status of 752 of the 779 couples who participated in the baseline sessions and found that 47 (6 percent) of these couples were not "true" couples, in that they were not married or cohabiting at the time of experimental activities. I recode $power_{ic}$ to missing for all "unconfirmed" (not tracked at endline or tracked but not actually married/cohabiting at baseline) couples.

about how to divide a cash endowment both individually and jointly.

Comparing choices made in private to those made jointly allows me to separately identify bargaining power from altruism under the admittedly restrictive assumption that individuals have log utility over cash winnings in the game. Another limitation is that the experimental proxy is only identified for 443 of the 559 still-married, still-cohabiting couples who also participated in the bargaining power game.²¹ Even so, it is instructive to correlate the experimental proxy with the baseline bargaining power proxies – these results are in Table 5. In general, the demographic proxy appears to be a much better predictor of the experimental proxy than self-reported decision-making power. There are multiple reasons for why this could be the case. For example, self-reported decision-making power could conflate actual bargaining power with intra-household alignment of preferences (that is, decision-making power may only be salient when spouses want different things). Self reports are also more likely to be influenced by social desirability bias, which could be important in a context like Kenya where gender norms are strong.

That said, I caveat that the correlation between the experimental and demographic proxy is not robust to conditioning on gender (see Table 5, column 5 versus 6). This means that the demographic proxy captures the fact that men have higher experimental proxies than women, but the demographic proxy does not strongly correlate with the experimental proxy when limiting attention to a given gender. To the extent that the experimental proxy reflects actual bargaining power, this is not ideal, especially for identifying high versus low bargaining power individuals within gender. Even so, Table 5 still suggests that the demographic proxy is the best available baseline proxy and measurement error in the bargaining power proxy should work to attenuate my results. I therefore use the demographic proxy as my primary indicator of individual bargaining power and provide results using alternative measures to check robustness.

4.2 Empirical Evidence

Testing the bargaining power hypothesis amounts to estimating heterogeneous treatment effects with respect to the demographic bargaining power proxy and other covariates. To do this, I limit the sample to opened individual accounts and run regressions of the following form:

$$y_{ic} = \beta_0 + \beta_1 freeat_{ic} + \beta_2 adv_{ic} + \beta_3 (freeat_m \times adv)_{ic} + (het'_{ic}\lambda + (freeat_m \times het)'_{ic}\delta + z'_{ic}\gamma + \varepsilon_{ic})$$
(2)

²¹Bargaining power is not identified when both private allocations and the joint allocation coincide. Appendix C provides additional detail on how the experimental proxy was constructed.

where y_{ic} is a measure of account use, $freeatm_{ic}$ is the free ATM dummy for the individual account owned by spouse *i*, and adv_{ic} is a dummy variable equal to one if spouse *i* is "relatively advantaged"/has above-median bargaining power for their gender. I use an above/below median split to ensure that I have variation in bargaining power for both genders, since 83 percent of men are "absolutely advantaged", in that the value of their bargaining power index is greater than zero.²² I also allow treatment effects to vary with respect to other demographic characteristics of account holder $i.^{23}$ These variables are in the vector het_{ic} , and z_{ic} is a vector including controls for own and spousal cash prize selection, a dummy for the first 6 experimental sessions, and interest rate dummy variables.

Table 6 presents the results when all accounts are pooled (Panel A) and for men's and women's accounts separately (Panels B and C). Here I focus on the standardized measure of account use that includes both short and long run measures of account activity. The first column of Table 6 focuses exclusively on bargaining power. Here the vector het_{ac} only includes a dummy variable to identify female-owned accounts (Panel A) and a dummy for unconfirmed couples. This way, the coefficient on the relatively advantaged interaction is only identified using the behavior of confirmed couples.

The coefficient on the ATM main effect is negative and statistically different from zero – in other words, individuals with less proxied bargaining power use their accounts less when given an ATM card. The interaction between the ATM main effect and the "relatively advantaged" indicator is positive and significant both overall and for men. Moreover, the coefficient on the interaction term is always larger in magnitude than the coefficient on the main effect, which supports the hypothesis that individuals with more bargaining power value the ATM cards (I can reject that the net impact for relatively advantaged individuals is equal to zero at the 10 percent level both overall and for men). It is also important to point out that the bargaining power proxy is not simply standing in for the overall match quality of a couple – in fact, if one spouse in a couple is classified as "advantaged", the other spouse is classified as "disadvantaged". Put another way, the results in Table 6 suggest that there is important within-couple heterogeneity in which spouse responded to the ATM treatment. Finally, note that the coefficient on the "advantaged" dummy is always negative and usually statistically significant. This suggests that low-bargaining-power individuals have excess demand for high-cost savings devices.

A key concern with the results in column 1 is that the heterogeneous treatment effect is not driven by bargaining power, but rather by some other characteristic correlated with

 $^{^{22}}$ Moreover, it is not obvious that a proxy value of zero should correspond to a household welfare weight of 0.5 given conditions on the Kenyan marriage market.

²³When a covariate has missing values, I recode the missing values to zero and include separate missing dummies (and associated interaction terms, when relevant) in all regressions.

bargaining power. It is certainly the case that relatively advantaged individuals also have higher *absolute* values of age, education, income and literacy. To address this concern, I add age, income, literacy, and education to het_{ic} in column 2. This way, heterogeneity with respect to bargaining power is identified by within-couple differences in demographics. In order to keep the interpretation of the ATM main effect consistent, these newly-added controls are demeaned (separately by account type) *before* being interacted with the ATM dummy.²⁴ This way the ATM main effect can always be interpreted as the treatment effect for accounts owned by an individual with below-median bargaining power and average values of all other variables in het_{ic} . The results are quite robust to including these additional heterogeneous treatment effects.

The third column of Table 6 adds all remaining available demographic characteristics detailed in Table 1 to het_{ic} , except savings-related variables and self-reported decision-making variables. The additions include the respondent's number of children, a polygamous dummy, occupation dummies, distance from the bank, and dummies for patient-now and impatientlater time preferences (which could be important if self-control problems are driving the heterogeneous treatment effects). Again, my results are very robust to allowing for heterogeneity with respect to these variables.

Finally, it is possible that some of the main ATM treatment effects are driven by substitution from pre-existing formal accounts to the new experimental accounts. Since men had higher rates of formal account ownership at baseline, this could lead to differential gender effects. To address this concern, column 4 adds bank account, SACCO account, ROSCA, and home savings dummies, as well as total cash savings at baseline to het_{ic} . The bargaining power results are very robust to including these controls, although I caveat that it is not obvious that these controls should be included, since baseline account use could be an outcome of relative bargaining power in the household. For this reason, I use the control set in column 3 as my preferred specification. These results suggest that ATM cards targeted to individuals with below-median bargaining power significantly decreased bank account use by 0.30 standard deviations units. In contrast, ATM cards that went to individuals with above-median bargaining power increased account use by 0.20 standard deviation units (this is significant at the 10 percent level).

4.3 Robustness and Alternative Mechanisms

Although Table 6 focuses on standardized account use, Appendix Table A7 shows that these heterogeneous treatment effects are apparent (and statistically significant) for all measures

 $^{^{24}}$ I follow the same convention for all other covariates included in het_{ac} , except for the female account dummy, which is demeaned unconditional on account type.

of account use included in the standardized index, as well as a version of the use index that does not topcode deposits and withdrawals. It is also important to ask how robust my results are to considering different measures of bargaining power. Appendix Table A8 presents additional results using (1) other transformations of the demographic proxy, (2) a demographic proxy that includes individual baseline savings, (3) a principal components aggregate of the variables included in the demographic proxy, and (4) self-reported consumption and savings decision-making. Estimates of the ATM×bargaining power interaction effect are almost always positive and statistically significant for women. In contrast, the results for men are not very robust. This may be due in part to the fact that men are usually at an absolute advantage in terms of bargaining power. In this case, the security concerns that I argue drive the bargaining power effect may only be relevant for a very small fraction of men in my sample, which would imply that these impacts would be difficult to detect with empirical regularity.

Bargaining power is not the only mechanism that could generate the heterogeneous treatment effects apparent in Table 6. When thinking about alternatives, the negative ATM effect for relatively disadvantaged individuals is particularly useful for winnowing down competing theories. Many mechanisms could rationalize a null effect of ATM cards, but it is more difficult to explain why the ATM card would be viewed as a *disamenity* for some group. One possibility would be if ATM cards made it difficult to guard money against people in participants' social networks more broadly.²⁵ Recall that the ATM card randomization was conducted when the couples were sitting together, so card receipt was observable to spouses, but not to others. Thus, individuals facing pressure from non-spouses – or "other-control" problems, in the terminology of Brune et al. (2013) – could have thrown the ATM card away or kept it secret. In contrast, it may have been difficult for an individual to simply dispose of the card if it was of interest to his or her spouse.

Another possibility is that my heterogeneous treatment effects are actually driven by self-control problems. I argue that this is unlikely for two reasons. First, allowing for heterogeneous treatment effects with respect to patient now-impatient later and impatient now-patient later preference reversals has no impact on my bargaining power results (Table 6, column 3). One concern here is that my time inconsistency measures are imperfect (and noisy) proxies of self control problems. This is particularly true since I used a front-end-delay method to elicit time preferences. Thus individuals never had to contend with the possibility of receiving cash immediately, which may be a more relevant measure of time inconsistency in this context. However, I do find that individuals married to hyperbolic discounters are

²⁵Indeed, Jakiela and Ozier (2016) find that Kenyan individuals are willing to sacrifice returns from economic experiments to hide winnings from kin, and that this concern is especially pressing for women.

significantly less likely to agree with their spouse about how much to save at endline. These individuals also report less agreement about how much to spend on temptation goods for the spouse. This suggests that my baseline proxy has some ability to identify present biased individuals. Second, it is not clear why bargaining power should be correlated with present bias, especially in my sample. First, there is no indication that this is the case in my data. More broadly, I am not aware of other papers that estimate bargaining power differences in time inconsistency, but other work in developing countries has found no evidence that women are substantially more likely to be present biased than men.²⁶

A third important driver of heterogeneity could be financial literacy – if some respondents did not understand the benefits of the ATM card, then they would have no reason to change their behavior. It is difficult, however, to explain why less financially literate people would use a bank account *less* when offered an ATM card. Moreover, my bargaining power results are very robust to allowing for simultaneous separate heterogeneous treatment effects with respect to education, literacy, occupation, and savings device use. Although these variables do not directly measure financial literacy, they are likely correlated: for example, Atkinson and Messy (2012) find that educational attainment and financial literacy are robustly correlated in 12 different countries, even conditional on demographic characteristics. Given this, it is unlikely that financial literacy is responsible for the results in Table 6.

The experimental design also allows me to test a novel implication of the bargaining power hypothesis: heterogeneity should be apparent for innovations that change account liquidity (like ATM cards), but not necessarily for other innovations that alter the relative attractiveness of accounts. I test this prediction by exploiting the fact that individual accounts were treated with both ATM cards and interest rates. While both treatments increased account use (see Table 4 for ATM cards and Appendix Table A4 for interest rates), the interest rates did not change the security or liquidity of an account. If the bargaining proxy is simply identifying individuals who are very sensitive to improved account terms, I should therefore observe similar heterogeneous treatment effects for both interest rates and ATM cards. In contrast, if I do not observe heterogeneous responses with the interest rate, this supports the hypothesis that the differences with respect to proxied bargaining power reflect security concerns.²⁷

²⁶For example, Giné et al. (2011) and Balakrishnan et al. (2015) find no significant relationship between present bias and gender in Malawi and Kenya respectively. Dupas and Robinson (2013) report that men are slightly more likely to be present biased (the opposite of what would be needed to rationalize my results), but significance tests are not available.

 $^{^{27}}$ On the other hand, finding significant heterogeneous effects for the interest rate would not be sufficient to rule out a bargaining power story – rather, I emphasize that a *lack* of heterogeneous effects would provide evidence that transaction costs are a key part of the story.

Table 7 repeats the analysis in Table 6 for interest rates.²⁸ For ease of interpretation, I study a dummy variable for "high interest", set equal to one when an account was randomly selected to receive 12 or 20 percent interest. Results are similar using alternative measures, such as the interest rate itself. Table 7 shows that higher interest rates on both husbands' and wives' accounts increased account use, but that this treatment effect does not vary with the bargaining power proxy. Moreover, the point estimates on the interaction terms are much smaller in magnitude than the ATM estimates and often point in the opposite direction of the ATM interaction effects. These results suggest that the bargaining power proxy is not simply identifying individuals who are highly elastic to changes in bank account terms.²⁹ Taken as a whole, my findings support the hypothesis that intrahousehold concerns depressed use of ATM cards for low bargaining power individuals in my sample, especially women.

5 Conclusion

Recent empirical evidence finds that access to formal financial services plays an important role in helping low-income individuals climb the economic ladder (Aportela 1999; Burgess and Pande 2005; Kaboski and Townsend 2005; Ashraf et al. 2006b; Bruhn and Love 2009; Dupas and Robinson 2013). Yet many individuals who have *de jure* access to formal banking services choose not to use them. In this paper I show that an innovation as simple as an ATM card, which makes an account cheaper and easier to use, can boost use of pre-existing formal bank accounts. At the same time, my results underscore that financial innovation for the poor cannot come in a one-size-fits-all package. While ATM cards had the expected positive impact on accounts owned either jointly or by men, the cards had no effect on use of accounts owned by women. I present evidence that this difference is not just a black-box "gender effect", but is rather driven by different intrahousehold pressures faced by men and women. My results support the hypothesis that the ATM treatment made bank savings more vulnerable to appropriation by other members of the household, especially for individuals with weak bargaining power.

²⁸Since interest rates were randomized unconditional on account opening, I include all potential individual accounts in the regressions. Since accounts earning higher interest were more likely to be opened, higher interest rates are correlated with ATM card provision. To address this all regressions control for "ex-ante" ATM treatment status and a full set of associated heterogeneous treatment effects that parallel those with respect to the high interest dummy. Ex-ante ATM treatment status is equal to actual ATM treatment status for opened accounts and is randomly set to 1 or 0 according to the ATM selection probability for unopened accounts.

²⁹Unsurprisingly, the results in Table 6 are virtually unchanged if I include interactions between the interest rate dummies and the bargaining power proxy.

The fact that ATM cards actually reduced formal account use for low bargaining power individuals is striking, and suggests that intrahousehold concerns can mediate how people save in large and meaningful ways. This insight has important implications for the design of savings products, since technologies meant to make accounts easier to access and cheaper to use could have unintended effects on groups like low bargaining power women. Developing products that offer both convenience and high levels of safety and security could be one promising way of meeting the needs of low-income savers facing intrahousehold concerns. More broadly, a range of different, potentially customizable products will likely be needed to address the varied needs of savers in the developing world. Implicit in this policy implication is the idea that helping low bargaining power individuals guard savings from others would be (at least privately) beneficial. My study was not designed to detect welfare impacts of the ATM treatment, nor can it provide broader evidence on how financial inclusion impacts the socio-economic and intra-household status of marginalized groups. Additional research is needed to fill this knowledge gap.

It is also important to acknowledge that intrahousehold issues may have been particularly important for my study population (who chose to open fairly costly formal bank accounts). Moreover, the fact that the ATM treatment was announced in front of both spouses may have exacerbated negative intrahousehold pressures. Given this, further research is needed to assess how important intrahousehold concerns are for economic decision-making and household efficiency, especially outside lab or lab-in-the-field contexts, where it is often easier to study intrahousehold behavior. It would be especially valuable to develop ways to study bargaining power concerns without having to rely on heterogeneous treatment effects (e.g. by experimentally varying the extent of intrahousehold pressure placed on savings).

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	(1)	(2)	(3)	(4)
	Husbands	Wives	Difference	N
Age	44.0	36.9	7.09***	1498
	[14.1]	[12.1]	(0.283)	
Education	7.89	5.82	2.06***	1491
	[3.70]	[3.99]	(0.143)	
Literate	0.845	0.660	0.186***	1498
	[0.362]	[0.474]	(0.019)	
Number Children	5.83	4.59	1.24***	1495
	[4.12]	[2.47]	(0.120)	
Polygamous	0.230	0.230	0.000***	1488
	[0.421]	[0.421]	(0)	
Subsistence Farmer	0.408	0.404	0.003	1493
	[0.492]	[0.491]	(0.021)	
Entrepreneur	0.386	0.462	-0.076***	1493
	[0.487]	[0.499]	(0.024)	
Income Last Week	1662	814	848***	1453
	[5474]	[1780]	(209)	
Has Bank Account	0.318	0.120	0.198***	1498
	[0.466]	[0.325]	(0.019)	
Has SACCO Account	0.0681	0.0121	0.056***	1494
	[0.252]	[0.109]	(0.010)	
Participates in ROSCA	0.486	0.665	-0.179***	1498
	[0.500]	[0.472]	(0.023)	
Saves at Home	0.845	0.896	-0.051***	1496
	[0.362]	[0.306]	(0.018)	
Cash Savings (Bank+SACCO+Home)	7612	1936	5676***	1404
	[22960]	[13159]	(950)	
Husband Does Most Savings	0.368	0.276	0.092***	1490
	[0.483]	[0.447]	(0.023)	
Wife Does Most Savings	0.430	0.486	-0.056***	1490
	[0.495]	[0.500]	(0.024)	
Both Spouses Save	0.258	0.335	-0.077***	1490
	[0.592]	[0.680]	(0.031)	
Husband Decides How Money is Spent	0.492	0.372	0.120***	1491
	[0.500]	[0.484]	(0.024)	
Wife Decides How Money is Spent	0.0818	0.188	-0.106***	1491
	[0.274]	[0.391]	(0.017)	
Both Spouses Decide How Money is Spent	0.375	0.397	-0.022	1491
	[0.485]	[0.490]	(0.024)	
Impatient Now-Patient Later	0.211	0.224	-0.012	1477
	[0.408]	[0.417]	(0.021)	
Patient Now-Impatient Later	0.272	0.314	-0.042*	1477
-	[0.445]	[0.465]	(0.023)	
Distance from Bank (Miles)	3.82	3.82		1498
. /	[2.15]	[2.15]		

 Table 1. Baseline Characteristics of ATM-Eligible Account Holders

Notes: Standard deviations in brackets, standard errors clustered at the couple level in parentheses. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)
	Share of	
	Couples	Ν
Joint Account Only (ATM Ineligible)	0.039	30
Joint Account Only (ATM Eligible)	0.507	395
Two Individual Accounts	0.302	235
All Three Accounts	0.050	39
Husband's and Joint	0.042	33
Wife's and Joint	0.035	27
Husband's Account Only	0.015	12
Wife's Account Only	0.010	8
Total	1	779

Table 2. Account Opening Choices

Table 3. Account Use Summary Statistics (ATM Control Group Only)

	(1)	(2)	(3)	(4)
		Accou	nt Type	
			Individual -	Individual -
	All	Joint	Husband	Wife
Extensive Margin: All Open Control (Group Accoun	ts		
Active - First 6 Months	0.222	0.265	0.192	0.186
	[0.416]	[0.442]	[0.395]	[0.390]
Active - Year 3	0.073	0.068	0.082	0.070
	[0.260]	[0.252]	[0.275]	[0.256]
N (Open Accounts)	878	381	255	242
Intensive Margin: All Control Group .	Accounts Acti	ive in First 6	Months	
Short-Run (First Six Months)				
Number Deposits	2.98	3.00	3.10	2.82
	[2.41]	[2.33]	[2.66]	[2.34]
Number Withdrawals	1.49	1.26	2.06	1.38
	[2.31]	[2.09]	[2.87]	[2.06]
Total Amount Deposited	5921	5399	6810	6126
	[10238]	[9735]	[10838]	[10821]
Total Amount Withdrawn	3897	3436	5433	3262
	[8534]	[8037]	[9891]	[8004]
Closing Balance - Six Months	1345	1371	1022	1638
	[2102]	[2025]	[1554]	[2707]
Long-Run (Next 2.5 Years)				
Number Deposits	5.16	4.11	7.37	5.13
	[8.07]	[6.37]	[10.2]	[8.59]
Number Withdrawals	5.13	4.01	8.18	4.31
	[9.77]	[7.51]	[13.7]	[8.60]
Total Amount Deposited	25726	21430	41545	18141
	[67204]	[63591]	[85218]	[49197]
Total Amount Withdrawn	25822	20676	42349	19377
	[68818]	[63333]	[89332]	[51495]
Closing Balance - Three Years	1197	1244	1058	1242
	[2411]	[2508]	[2214]	[2441]
N (Active in First 6 Months)	195	101	49	45

Note: Sample limited to open, ATM-eligible accounts not selected for a free ATM card. All variables except account activity dummies are top-coded at the 99th percentile. Standard deviations are in brackets. An account is coded as "active" if the account holder

made any (non cash prize) deposit during the specified period.

	(1)	(0)	(2)	(4)	(٣)	(c)
	(1)	(2)	(3)	(4)	(5)	(0)
		First 6 Months		Next 2	Overall	
	Has ATM	Trans-	Use	Trans-		
	Card	actions	Index	actions	Use Index	Use Index
Panel A. Pooled Impact of ATM	Cards					
Free ATM	0.860***	0.526^{**}	0.158^{*}	2.09**	0.187^{**}	0.172**
	(0.013)	(0.266)	(0.084)	(0.970)	(0.087)	(0.075)
Panel B. Impact of ATM Cards	by Account T	bype				
Free ATM \times Joint	0.842^{***}	0.705	0.227	3.94^{***}	0.331**	0.279^{**}
	(0.020)	(0.451)	(0.145)	(1.65)	(0.146)	(0.125)
Free ATM \times Husband	-0.005	0.260	0.028	-2.46	-0.191	-0.082
	(0.032)	(0.737)	(0.221)	(2.70)	(0.242)	(0.204)
Free ATM \times Wife	0.067^{***}	-0.899*	-0.274	-4.22**	-0.328**	-0.301**
	(0.027)	(0.521)	(0.174)	(1.87)	(0.167)	(0.149)
P-value: Husband's $ATM=0$	0.000^{***}	0.099^{*}	0.128	0.481	0.458	0.215
P-value: Wife's ATM=0	0.000^{***}	0.455	0.620	0.768	0.971	0.793
P-value: Husband's=Wife's	0.021**	0.076^{*}	0.119	0.449	0.518	0.229
Panel C. Is Impact of ATM Care	ds for Wives	Different?				
Free ATM	0.840***	0.805^{**}	0.237**	3.00^{***}	0.258^{**}	0.248^{***}
	(0.016)	(0.357)	(0.110)	(1.29)	(0.114)	(0.098)
Free ATM×Wife	0.069^{***}	-0.999**	-0.285*	-3.28**	-0.255*	-0.270**
	(0.024)	(0.449)	(0.147)	(1.58)	(0.143)	(0.129)
DV Mean (No ATM, No Cash)	0.094	0.842	0.000	3.06	0.000	0.000
Ν	1114	1114	1114	1114	1114	1114

Table 4. Impact of Free ATM Cards on Account Use

Notes: Robust standard errors clustered at the couple level are in parentheses. All regressions include dummy variables for the first 6 experimental sessions, cash prize receipt for each spouse, account type dummies, and cash prize×account type interactions, as well as interest rate dummies. The number of transactions variables are topcoded at the 99th percentile. The use index averages standardized values of an account activity dummy, the number of deposits, the number of withdrawals, the value of deposits, and the value of withdrawals. All variables except the activity dummies are top-coded at the 99th percentile. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)	(5)	(6)
Female	-0.272***					-0.208***
	(0.075)					(0.081)
Demographic Proxy		0.155^{***}			0.139^{***}	0.045
		(0.059)			(0.058)	(0.070)
Spending - I Mostly Decide			0.060		0.052	0.002
			(0.057)		(0.059)	(0.056)
Saving - I Mostly Save				-0.182***	-0.177^{***}	-0.148**
				(0.068)	(0.070)	(0.067)
R^2	0.030	0.017	0.003	0.015	0.031	0.040
DV Mean (Men)	0.636	0.636	0.636	0.636	0.636	0.636
N	866	866	866	866	866	866

Table 5. Correlation Between the Endline Experimental Proxy of Bargaining Power and BaselineProxies of Bargaining Power

Notes: The dependent variable is always the endline experimental proxy of bargaining power. See Appendix C for details on how the experimental proxy is constructed. The sample is limited to individuals in intact couples who participated in the experimental allocation game, and for whom the experimental game produced an identified estimate of bargaining power. Regressions are run at the individual level with robust standard errors clustered at the couple level in parentheses. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)
Panel A. All Individual Accounts				
Free ATM	-0.184**	-0.274***	-0.290***	-0.374***
	(0.083)	(0.100)	(0.108)	(0.126)
Free ATM×Advantaged	0.488***	0.526***	0.489***	0.500***
	(0.177)	(0.155)	(0.173)	(0.183)
Advantaged	-0.111	-0.216***	-0.221***	-0.221***
	(0.078)	(0.081)	(0.082)	(0.085)
P-value: $ATM+ATM \times Advantaged=0$	0.061^{*}	0.034**	0.099^{*}	0.314
DV Mean (No ATM, Not Advantaged)	0.083	0.083	0.083	0.083
Ν	628	628	628	628
Panel B. Men's Accounts				
Free ATM	-0.287***	-0.292*	-0.350*	-0.468**
	(0.108)	(0.150)	(0.183)	(0.219)
Free ATM×Advantaged	0.805^{***}	0.558^{**}	0.606^{**}	0.629^{*}
	(0.328)	(0.284)	(0.296)	(0.361)
Advantaged	-0.052	-0.204*	-0.252*	-0.258*
	(0.125)	(0.119)	(0.129)	(0.132)
P-value: $ATM + ATM \times Advantaged = 0$	0.086^{*}	0.268	0.222	0.520
DV Mean (No ATM, Not Advantaged)	0.085	0.085	0.085	0.085
Ν	319	319	319	319
Panel C. Women's Accounts				
Free ATM	-0.205*	-0.350***	-0.406***	-0.481***
	(0.114)	(0.140)	(0.136)	(0.192)
Free ATM×Advantaged	0.256	0.538^{***}	0.530^{***}	0.562^{***}
	(0.164)	(0.204)	(0.202)	(0.207)
Advantaged	-0.168*	-0.242**	-0.244**	-0.245**
	(0.093)	(0.112)	(0.112)	(0.119)
$P-value: ATM+ATM \times Advantaged {=} 0$	0.682	0.181	0.360	0.561
DV Mean (No ATM, Not Advantaged)	0.081	0.081	0.081	0.081
Ν	309	309	309	309
Additional Heterogeneity Controls	None	+BP Comp	+ Demo	+Savings

Table 6. Impact of ATM Cards on Standardized Account Use by Household Bargaining Power

Notes: The outcome in all specifications is the overall measure of standardized account use. Robust standard errors (clustered at the couple level in Panel A) in parentheses. An individual is relatively advantaged if he or she has above-median bargaining power for his or her gender. All regressions include controls for own and spousal cash prize receipt, a dummy identifying the first 6 experimental sessions, interest rate dummies, a dummy for unconfirmed couples, and the interaction of the unconfirmed couple dummy and the ATM dummy. Panel A also includes a wife's account dummy and its interaction with the ATM dummy. The "BP Comp." control set includes age, education, literacy and income and interactions of these variables with the ATM treatment. The "Demo." controls add number of children, occupation (subsistence farmer and entrepreneur dummies), distance from the bank, a polygamous dummy, a patient now-impatient later dummy, a impatient-now patient-later dummy, and interactions of these variables with the ATM treatment. The "Savings" control set adds dummy variables for use of bank accounts, SACCO accounts, ROSCAs, home savings, as well as recorded cash savings and interactions of these variables with the ATM treatment. All variables except the bargaining power proxy and the female account dummy that are interacted with the free ATM dummy are demeaned by account type. The bargaining power proxy is not demeaned and the female account dummy is demeaned unconditional on account type. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)
Panel A. All Individual Accounts				
High Interest	0.113***	0.129^{***}	0.132^{***}	0.128***
	(0.037)	(0.042)	(0.043)	(0.045)
High Interest × Advantaged	0.002	-0.045	-0.066	-0.061
	(0.059)	(0.062)	(0.061)	(0.061)
Advantaged	-0.040	-0.047	-0.039	-0.035
	(0.033)	(0.031)	(0.030)	(0.033)
$P-value: ATM + ATM \times Advantaged = 0$	0.009^{***}	0.039^{**}	0.078^{*}	0.076^{*}
DV Mean (No ATM, Not Advantaged)	-0.220	-0.220	-0.220	-0.220
Ν	1558	1558	1558	1558
Panel B. Men's Accounts				
High Interest	0.148^{***}	0.152^{***}	0.148^{**}	0.141^{**}
	(0.058)	(0.062)	(0.068)	(0.070)
${\it High \ Interest} {\times} {\it Advantaged}$	0.006	-0.030	-0.066	-0.053
	(0.098)	(0.100)	(0.099)	(0.096)
Advantaged	-0.030	-0.013	-0.012	-0.013
	(0.045)	(0.039)	(0.040)	(0.040)
$P-value: ATM + ATM \times Advantaged = 0$	0.054^{*}	0.108	0.204	0.179
DV Mean (No ATM, Not Advantaged)	(0.054)	(0.108)	(0.204)	(0.179)
Ν	-0.228	-0.228	-0.228	-0.228
Panel C. Women's Accounts	779	779	779	779
High Interest	0.079^{*}	0.110^{**}	0.123^{***}	0.084
	(0.043)	(0.053)	(0.052)	(0.063)
High Interest \times Advantaged	-0.013	-0.074	-0.105	-0.111
	(0.061)	(0.073)	(0.074)	(0.078)
Advantaged	-0.047	-0.078*	-0.068	-0.061
	(0.044)	(0.047)	(0.042)	(0.046)
P-value: ATM+ATM×Advantaged=0	0.118	0.401	0.692	0.636
DV Mean (No ATM, Not Advantaged)	-0.213	-0.213	-0.213	-0.213
Ν	779	779	779	779
Additional Heterogeneity Controls	None	+BP Comp.	+ Demo.	+ Savings

 Table 7. Robustness Check: Impact of Interest Rates on Standardized Account Use by

 Household Bargaining Power

Notes: Robust standard errors (clustered at the couple level in Panel A) in parentheses. The outcome in all specifications is the overall measure of standardized account use. An account is coded as high interest if the 6-month interest rate was 12 or 20 percent. All regressions include controls for husband and wife cash prize receipt, a dummy identifying the first 6 experimental sessions, a dummy for confirmed couples, and the interaction of the confirmed couple dummy and the high interest dummy. All regressions also control for ex-ante ATM status and its interactions with the same covariates that are interacted with the high interest dummy. Panel A also includes a wife's account dummy. See notes to Table 6 for details on additional heterogeneity controls. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.





Notes: Observations are weighted so the share of cash-prize eligible accounts is balanced among the Free ATM and No ATM groups.

Figure 2. Distribution of Male Relative Bargaining Power in Couples



Notes: Sample limited to N=678 confirmed couples. The bargaining power proxy is constructed by standardizing age, education, literacy, and income at the individual level and then taking the difference between the values for individual i and his or her spouse. The proxy is the average value of these standardized differences. This figure graphs male relative bargaining power. Female relative bargaining power is a mirror image of this graph by construction.

A How Selected is the Sample Relative to the Population?

It is important to ask whether the subset of couples who participated in the experiment represent a meaningful share of all married couples. Unfortunately, the project budget could not accommodate a census of the experimental catchment areas. As a result, I am not able to precisely estimate the share of all married couples who attended the account opening camps. It is possible to conduct a rough back-of-the-envelope-calculation to obtain a lower bound estimate, however. To do this, I make use of enrollment data from the primary schools that hosted the account opening camps. The vast majority of Kenyan primary school students attend day schools within walking distance of their home.² Dividing total primary enrollment by the number of primary school enrollees per married couple can therefore provide a rough estimate of the number of married couples living in the catchment area. There are 2.29 primary school enrollees per married couple in my study districts, according to the 2009 Kenyan census. This number aligns well with my endline data, in which the average study participant reported having two children enrolled in primary school.

Appendix Table A9 illustrates baseline account opening camp attendance, primary school enrollment, and implied takeup (the share of co-resident married couples in the catchment area attending the session) by primary school. This is a lower bound on actual takeup, since field officers were given a limited amount of time in each catchment area and were therefore not able to invite all eligible married couples in the area to participate in the experiment. Overall, at least 11 percent of all married couples participated in the experiment, with takeup somewhat higher (15 percent) in the rural areas outside Busia township. While this represents a modest share of all married couples, the share is large relative to the size of the formally banked population. Twenty-two percent of individuals in my sample reported that they owned a bank account at baseline. Assuming 22 percent of *all* married couples owned bank accounts prior to the experiment, then the experiment would have increased bank account access in experimental areas to just over 30 percent, which represents a 38 percent increase.³

 $^{^{2}}$ In my study districts, 94 percent of students were enrolled in a day school, 1.4 percent of students were enrolled in a boarding school, and 4.6 percent of students were enrolled in a mixed boarding and day school.

³If non-attendees had lower rates of baseline bank account access, then the implied increase in access generated by the experiment would be even larger. This seems likely, since just 17 percent of individuals aged 18 and over in Western Province owned a formal banking product in 2009 (FSD Kenya 2009).

B Survey Questions on Rates of Time Preference

As part of the baseline, each respondent was asked to make a series of choices between different amounts of money at different times. The survey framed all questions as a choice between a smaller amount of money at a nearer time t (x^t) and a larger amount of money at a farther time $t + \tau$ ($x^{t+\tau}$). In order to make choices salient, respondents were given a 1 in 5 chance of winning one of their choices.

In total, participants responded to 10 tables of monetary choices, with each table consisting of 5 separate choices between a smaller Ksh $x^t \in \{290, 220, 150, 80, 10\}$ and larger $x^{t+\tau} = \text{Ksh } 300$. The 10 $(t, t + \tau)$ pairs were: $(\frac{1}{7}, 1), (\frac{1}{7}, 2), (\frac{1}{7}, 3), (\frac{1}{7}, 4), (\frac{1}{7}, 8), (\frac{1}{7}, 12), (2, 3), (2, 4), (4, 8), and (4, 12)$ weeks. I set the lowest near term t to "tomorrow" $(\frac{1}{7})$ instead of "today" (0) to avoid confounding our discount factor estimates with differences in transaction costs of obtaining the funds in the near versus far term, or degrees of trust as to whether the money would be delivered (Harrison et al. 2004).

I measure preference reversals (of both the impatient-now, patient-later type as well as the patient-now, impatient-later type) by comparing responses to the last four tables of questions to their analogues that involve choices between cash tomorrow and cash at a later date. (An important drawback of using "tomorrow" instead of "today" as the nearest choice is that I cannot detect hyperbolic discounting that discounts all future consumption relative to immediate consumption – this will likely underestimate the degree of hyperbolic discounting in the sample). If a respondent won one of her choices, she had the option of having the funds deposited directly in her bank account, or picking the cash up at our field office, also located in Busia town.⁴

For the purposes of this study, I define an individual to have impatient-now, patient later preferences if he or she exhibited impatient-now, patient-later preference reversals on at least one out of four of the relevant pairs of tables *and* this type of preference reversal is more common than the patient-now, impatient-later reversal. Patient-now, impatient-later preferences are constructed analogously.

C Proxying Bargaining Power at Endline

The endline experimental bargaining module was conducted with all married couples who could be present at the same place at the same time, since this was required for the experimental activities. While being interviewed alone, each spouse was told that she (he)

⁴Despite the fact that the field office and Family Bank were proximately located, and that accessing cash deposited in an account would entail paying a withdrawal fee, the majority of cash winners (77 percent) chose to have their payments deposited in a bank account.

would be tasked with dividing a Ksh 700 endowment between herself (himself) and her (his) spouse. All respondents were told that they should divide the endowment according to their own true preferences. Ksh 700 represents a substantial amount of income for most study participants – the median daily income for men at endline was Ksh 173, while median daily income for women was Ksh 76.

Denote spouse $s \in \{M, F\}$'s choice for (without loss of generality) herself as x_s^s . Denote the remaining allocation for s's spouse as $700 - x_s^s = x_s^{-s}$. After the individual decisionmaking phase, the spouses were brought together and asked to jointly decide how to divide the endowment. Denote the joint allocation for spouse s as x_J^s . To ensure that respondents considered the questions carefully, the choices were incentivized. The incentive structure was explained clearly (and in private) to each spouse before any decision making took place. At the outset of the exercise each spouse was given a tin. After spouse s made her private decision, her choice for herself (x_s^s) was written on a card. This card was then placed in an opaque envelope and added to s's tin. At the same time, the allocation for the spouse, x_s^{-s} was written on a card, put in an envelope, and placed in spouse -s's tin. Thus, after the individual decision-making phase each spouse had two cards in his/her tin – one reflecting her or her own decision, and the other reflecting the decision of the spouse.

After joint decision making, a card with x_J^s was added to s's tin. Finally, each spouse randomly selected an envelope from a bag that included cards marked with every possible individual allocation.⁵ This fourth envelope was then placed in s's tin. Each participant then randomly drew one of the four cards in her tin and was paid the cash amount on that card immediately (this was done in private, out of view of the spouse). Thus, the payment protocol was designed to (1) ensure that allocation choices had real consequences for each spouse and (2) ensure that individual, private choices were not revealed by the payment process.

To arrive at an estimate of bargaining power, I assume that spouse s's preferences over the allocation are given by:

$$U_s\left(x_s^s\right) = \ln\left(x_s^s\right) + \gamma_s \ln\left(700 - x_s^s\right)$$

where γ_s is an altruism parameter. I assume that spouses take a bargaining-power-weighted average of individual choices when arriving at the joint decision. Thus, the joint decision is

⁵The protocol required that spouses make choices in Ksh 50 increments. The smallest allocation for a single person was Ksh 50, while the largest was Ksh 650.

governed by:

$$\max_{x_J^M} \quad \mu \left[ln\left(x_J^M\right) + \gamma_M ln\left(700 - x_J^M\right) \right] + (1 - \mu) \left[ln\left(700 - x_J^M\right) + \gamma_F ln\left(x_J^M\right) \right]$$

The first order conditions for these problems involve three unknown parameters $(\mu, \gamma_M, \gamma_F)$ and three equations, so the system is exactly identified. Specifically:

$$\hat{\gamma_s} = \frac{700 - x_s^s}{x_s^s}$$

$$\hat{\mu} = \frac{x_J^M - x_J^F \hat{\gamma}_F}{(x_J^M - x_J^F \hat{\gamma}_F) + (x_J^F - x_J^M \hat{\gamma}_M)}$$

I use $\hat{\mu}$ as the "experimental proxy" of bargaining power. Note that μ is not identified when $x_M^M = x_F^M = x_J^M$ – in this case altruism parameters are such that the joint allocation is possible for any value of μ . In practice, 23 percent of couples who participated in the allocation exercise chose such that $x_M^M = x_F^M = x_J^M$. I therefore have an identified estimate of μ for 433 of the 559 intact couples who completed the allocation exercise.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
			Free ATM	Card					Interest F	Rates		
	Husbar	nd	Wife	,	Join	oint Husb		and Wi		fe Joint		ū
	Coeff.	Ν	Coeff.	Ν	Coeff.	Ν	Coeff.	Ν	Coeff.	Ν	Coeff.	Ν
A. Correlations with Baseline Der	nographic Cha	iracteri	istics									
Age	0.075	638	0.754	618	1.04	972	0.330	1558	-1.64	1558	2.63^{*}	1558
Education	0.123	632	-0.292	612	0.314	971	0.590^{*}	1551	0.206	1551	0.097	1551
Literate	0.039	638	-0.088*	618	0.031	972	0.017	1558	0.050	1558	-0.027	1558
Number Children	0.214	638	-0.163	617	-0.006	970	0.106	1555	-0.046	1555	0.758^{**}	1555
Polygamous	0.023	634	-0.051	612	-0.009	966	-0.019	1546	-0.029	1546	0.091^{*}	1546
Subsistence Farmer	-0.128***	635	-0.063	617	0.000	968	-0.057	1551	-0.017	1551	0.005	1551
Entrepreneur	0.090^{*}	635	0.072	617	0.017	968	0.015	1551	0.034	1551	-0.006	1551
Income Last Week	520*	618	-274	604	22.4	942	120	1513	-86.3	1513	-4.42	1513
Has Bank Account	0.022	638	0.002	618	-0.018	972	0.051^{*}	1558	-0.003	1558	0.024	1558
Has SACCO Account	0.023	636	-0.001	615	-0.012	970	0.022	1554	-0.029***	1554	0.009	1554
Participates in ROSCA	0.010	638	-0.059	618	-0.025	972	-0.033	1558	0.015	1558	0.095^{***}	1558
Saves at Home	0.031	638	0.004	617	0.020	970	0.017	1556	0.044^{**}	1556	-0.035	1556
Cash Savings	2368	596	1981	576	-106	906	3455^{**}	1462	-2575**	1462	878	1462
Husband Does Most Savings	-0.018	634	-0.017	614	0.026	968	-0.031	1550	-0.010	1550	-0.069*	1550
Wife Does Most Savings	0.028	634	-0.006	614	-0.030	968	0.068^{*}	1550	-0.002	1550	0.046	1550
Both Spouses Save	0.005	634	0.025	614	0.018	968	-0.032	1550	0.006	1550	0.016	1550
Spending: Husband Decides	0.000	634	-0.036	614	-0.017	969	0.005	1551	-0.063*	1551	0.002	1551
Spending: Wife Decides	0.009	634	0.015	614	0.009	969	0.006	1551	0.026	1551	-0.031	1551
Spending: Both Decide	-0.012	634	0.029	614	0.024	969	-0.032	1551	0.011	1551	0.001	1551
Impatient Now-Patient Later	0.023	626	0.030	610	-0.005	955	-0.021	1537	0.004	1537	-0.030	1537
Patient Now-Impatient Later	-0.020	626	-0.018	610	0.039	955	-0.024	1537	0.030	1537	-0.016	1537
Distance from Bank (Miles)	-0.391	638	-0.035	618	-0.168	972	0.022	1558	-0.380*	1558	0.109	1558
P-value: Joint Test	0.698	3	0.886	6	0.93	5	0.29	1	0.233	3	0.235	5
B. Correlations with Follow-Up an	nd Cash Prize	Selects	ion									
Not Interviewed at Endline	0.020	638	-0.029	618	0.026	972	0.029	1558	0.003	1558	0.008	1558
Cash Prize	-0.004	638	-0.075**	618	0.034	972	0.028	1558	0.016	1558	0.074***	1558

Appendix Table A1. Randomization Verification

Notes: All results are from regressions where the relevant characteristic is regressed on the treatment of interest. Each coefficient estimate is derived from a separate regression. All standard errors are clustered at the couple level. Sample for ATM cards includes all individuals in a couple who opened the relevant account. All ATM regressions include a dummy identifying the first 6 experimental sessions. Sample for interest rates includes all individuals in the sample frame. For ease of interpretation, interest rates are renormalized to range from 0 to 1. The joint test is an F-test of whether the treatment of interest is equal to zero across all relevant regressions. Cash savings includes savings at home, in banks, and in SACCOs. ****, ***, and * indicate significance at the 1, 5, and 10 percent levels respectively.

Appendix Table A2. Correlates of Account Opening Decisions

Couple Opened: Joint Account Husband's Account Wife's Account Age 0.000 -0.062 -0.001 Education 0.0001 (0.001) (0.001) Education 0.0005 0.008* 0.0008* Literate 0.0401 -0.047 -0.039 Mumber Children 0.005 -0.004 -0.007 Polygamous -0.063 0.0444 -0.077** 0.0421 (0.042) (0.043) 0.039 Subsistence Farmer 0.032 -0.081*** -0.079** 0.032 -0.081*** -0.039 0.0444 0.039) Entrepreneur -0.022 -0.033 -0.039 0.035 0.0636 0.0364 0.0365 0.0639 0.0361 In as Bank Account -0.009 0.055 0.069* 0.035 0.0369 0.035 0.0369 In as Bank Account -0.019 0.035 0.0369 In as Bank Account 0.043 -0.019 0.043 -0.019 In as Bank Account 0.043 -		(1)	(2)	(3)
Joint Account Husband's Account Wife's Account Age 0.000 -0.002 -0.001 Education -0.005 0.008* 0.003 Literate 0.040 -0.047 -0.039 Literate 0.005 -0.004 -0.007 Number Children 0.005 -0.004 -0.007 Polygamous -0.063 0.044 -0.077*** 0.032 -0.091** -0.079** 0.032 -0.091** -0.039 Subsistence Farmer 0.032 -0.091** -0.079** 0.032 -0.091** -0.033 -0.039 Income Last Week -0.003 0.000 0.005* 10003 (0.002) (0.033) (0.022) (0.033) Participates in ROSCA 0.004 -0.002 0.023 Saves at Home 0.037 -0.051 -0.019 0.037 -0.051 -0.019 0.036 Saves at Home 0.037 -0.051 -0.019 0.044 <t< th=""><th></th><th></th><th>Couple Opened:</th><th></th></t<>			Couple Opened:	
Age 0.000 -0.002 -0.001 Education 0.005 0.008* 0.008 Literate 0.005 0.005 0.039 Number Children 0.005 -0.047 -0.039 Number Children 0.005 -0.044 -0.077 0.0051 0.0039 (0.039) 0.0391 Number Children -0.063 0.044 0.007*** Polygamous -0.063 0.044 0.007*** 0.032 -0.012* -0.033 -0.039 Entrepreneur -0.022 -0.033 -0.039 Income Last Week -0.003 0.000 0.006* (0.035) (0.036) (0.036) (0.036) Has Bank Account -0.044 -0.019 0.043 Account -0.044 -0.019 0.043 Account (0.075) (0.026) (0.026) Saves at Home (0.037) (0.038) (0.037) Saves at Home (0.037) (0.038) (0.037)		Joint Account	Husband's Account	Wife's Account
(0.001) (0.001) (0.001) Education 0.005 0.008* 0.008* Literate 0.040 -0.047 -0.039 Number Children 0.005 -0.004 -0.007 Number Children 0.005 -0.004 -0.079 Polygamous -0.063 0.044 0.079*** (0.032) (0.042) (0.043) (0.039) Subsistence Farmer 0.032 -0.091** -0.079** (0.035) (0.036) (0.036) (0.036) Income Last Week -0.003 0.000 0.008* (0.035) (0.036) (0.036) (0.036) Has Bank Account -0.009 0.055 0.069* (0.026) (0.026) (0.023) (0.036) Participates in ROSCA 0.004 -0.002 0.023 Cash Savings (Bank+SACCO+Home) 0.001 (0.037) (0.036) Mife Does Most Savings -0.012 0.003 0.0073 Mife Does Most Savings 0.012 0.0063	Age	0.000	-0.002	-0.001
Education -0.005 0.008* 0.008* Literate 0.040 -0.047 -0.039 Number Children 0.005 -0.004 -0.007 0.005 0.0055 -0.003 0.0051 Polygamous -0.063 0.0441 0.107*** 0.022 -0.091** -0.079** -0.079** 10.032 -0.091** -0.079** -0.033 -0.039 Entrepreneur 0.032 -0.013 -0.039 -0.039 Income Last Week -0.003 0.000 0.006* -0.003 -0.036 (0.036) Has Bank Account -0.009 0.055 0.0686 -0.033 -0.039 Has SACCO Account -0.004 -0.019 0.043 -0.022 -0.033 -0.033 Participates in ROSCA 0.004 -0.002 0.023 (0.036) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 -0.001 -0.011 -0.011 Uband Does Most Savings 0.012 0.0031 (0.037) <tr< th=""><th></th><th>(0.001)</th><th>(0.001)</th><th>(0.001)</th></tr<>		(0.001)	(0.001)	(0.001)
(0.005) (0.005) (0.005) Literate 0.040 -0.047 -0.039 0.038) (0.039) (0.039) (0.039) Number Children 0.005 -0.004 -0.007 0.005 -0.004 (0.005) (0.003) Subsistence Farmer 0.032 -0.012*** -0.073** 0.035 (0.040) (0.039) (0.039) Entrepreneur -0.022 -0.033 -0.039 ncome Last Week -0.003 (0.000) (0.036) Income Last Week -0.003 (0.002) (0.036) Has SACCO Account 0.044 -0.019 0.043 (0.025) (0.026) (0.026) (0.026) Saves at Home 0.037 -0.051 -0.019 (0.037) (0.037) (0.038) (0.037) Cash Savings (Bank+SACCO+Home) 0.000 -0.001 (0.001) (0.041) (0.037) (0.036) (0.075) Both Spouses Savings 0.012 0.0063 0.063 <th>Education</th> <th>-0.005</th> <th>0.008^{*}</th> <th>0.008^{*}</th>	Education	-0.005	0.008^{*}	0.008^{*}
Literate 0.040 -0.047 -0.039 Number Children 0.038) (0.039) (0.039) Number Children 0.005 -0.004 -0.007 Polygamous -0.063 0.044 0.017*** 0.032 -0.091** -0.079** 0.032 -0.0191** -0.033 -0.039 Entrepreneur -0.032 -0.033 -0.039 Income Last Week -0.003 0.000 0.005* 1as Bank Account -0.049 0.055 0.0689 Has SACCO Account -0.044 -0.019 0.043 1as SACCO Account -0.044 -0.002 0.023 1as SACCO Account -0.044 -0.019 0.043 1as SACCO Account -0.040 -0.002 0.023 1as SACCO Account -0.041 -0.038 0.030 1as SACCO Account -0.041 -0.039 0.041 1as SACCO Account -0.057 0.051 -0.019 1as SACCO Account -0.050 0.0261		(0.005)	(0.005)	(0.005)
(0.038) (0.039) (0.039) Number Children (0.005) (0.005) (0.007) Polygamous -0.063 0.044 0.107*** (0.042) (0.043) (0.043) Subsistence Farmer (0.032) -0.091** -0.079** (0.038) (0.040) (0.039) (0.039) Entrepreneur -0.022 -0.033 -0.039 Income Last Week -0.003 0.000 0.005* (0.035) (0.036) (0.036) (0.037) Has Bank Account 0.044 -0.019 0.043 (0.025) (0.036) (0.038) Participates in ROSCA 0.004 -0.002 Participates in ROSCA 0.004 -0.002 0.023 -0.011 -0.011 Saves at Home 0.037 -0.051 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.019 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011 -0.021 -0.025 -0.023 -0.021 </th <th>Literate</th> <th>0.040</th> <th>-0.047</th> <th>-0.039</th>	Literate	0.040	-0.047	-0.039
Number Children 0.005 -0.004 -0.007 0.005 (0.005) (0.005) (0.005) Polygamous -0.063 0.044 0.107*** 0.032 -0.091** -0.079** 0.032 -0.091** -0.039 Entrepreneur -0.022 -0.033 -0.039 1.come Last Week -0.003 (0.000) 0.005* 1.come Last Week -0.009 0.055 0.069* 1.come Last Week -0.009 0.055 0.069* 1.come Last Week 0.004 -0.019 0.043 1.come Last Week 0.004 -0.022 0.023 1.come Last Week 0.004 -0.019 0.043 1.come Last Week 0.004 -0.020 0.023 1.come Last Week 0.004 -0.019 0.043 1.come Last Week 0.004 -0.020 0.023 1.come Last Week 0.004 -0.020 0.023 1.come Last Week 0.004 -0.026 0.026 <t< th=""><th></th><th>(0.038)</th><th>(0.039)</th><th>(0.039)</th></t<>		(0.038)	(0.039)	(0.039)
(0.005) (0.005) (0.005) Polygamous -0.063 0.044 (0.07***) (0.042) (0.042) (0.043) Subsistence Farmer 0.032 -0.091** -0.079** (0.038) (0.040) (0.039) -0.079** (0.035) (0.036) (0.036) (0.039) Entrepreneur -0.022 -0.033 -0.039 (0.035) (0.036) (0.036) (0.036) Income Last Week -0.009 0.055 0.069* (0.035) (0.036) (0.036) (0.036) Has Bank Account 0.044 -0.019 0.043 (0.078) (0.085) (0.026) (0.026) Participates in ROSCA 0.004 -0.002 (0.023) Saves at Home 0.037 -0.038 0.038 Cash Savings (Bank+SACCO+Home) 0.000 0.001 (0.001) Husband Does Most Savings 0.012 0.005 0.063 (0.081) (0.089) (0.077) 0.016 0.0	Number Children	0.005	-0.004	-0.007
Polygamous -0.063 0.044 0.107^{***} Subsistence Farmer 0.032 -0.091^{**} -0.079^{**} Subsistence Farmer 0.032 -0.091^{**} -0.079^{**} Income Last Week -0.002 -0.033 -0.039 Income Last Week -0.003 0.000 0.005^{*} Income Last Week -0.009 0.055 0.069^{*} Income Last Keek 0.004 -0.019 0.043 Income Last Keek 0.004 -0.002 0.023 Income Last Keek 0.004 -0.002 0.023 Income Last Keek 0.004 -0.002 0.025 Subsistence Farmer 0.037 (0.037) $(0.030$ Ins SACCO Account 0.044 -0.026 (0.026) (0.026) Subsistence Farmer 0.037 $(0.031$ (0.001) (0.001) <th></th> <th>(0.005)</th> <th>(0.005)</th> <th>(0.005)</th>		(0.005)	(0.005)	(0.005)
Nome (0.042) (0.042) (0.043) Subsistence Farmer 0.032 -0.091^{**} -0.079^{**} Entrepreneur -0.033 0.039 Income Last Week -0.003 0.000 0.005^* (0.035) (0.036) (0.036) (0.037) Has Bank Account -0.009 0.055 0.069^* (0.078) (0.083) (0.036) (0.037) Has SACCO Account 0.044 -0.019 0.037 (0.078) (0.085) (0.083) Participates in ROSCA 0.004 -0.002 0.023 Saves at Home 0.037 -0.051 -0.019 (0.037) (0.037) (0.036) (0.037) Cash Savings (Bank+SACCO+Home) 0.000 0.000 0.001 Husband Does Most Savings 0.012 0.038 0.038 (0.081) (0.082) (0.083) (0.07) Wife Does Most Savings 0.012 0.005 0.063 <t< th=""><th>Polygamous</th><th>-0.063</th><th>0.044</th><th>0.107***</th></t<>	Polygamous	-0.063	0.044	0.107***
Subsistence Farmer 0.032 -0.091^{**} -0.079^{**} Intrepreneur 0.032 -0.033 -0.039 Entrepreneur -0.022 -0.033 -0.039 Income Last Week -0.003 0.000 0.005^* Income Last Week -0.003 0.000 0.005^* Income Last Week -0.009 0.055 0.069^* Income Last Week 0.003 (0.035) (0.035) (0.063) Has Bank Account 0.04 -0.019 0.043 0.025 Saves at Home 0.037 -0.051 -0.019 Insband Does Most Savings 0.012 0.003 0.038 Insband Does Most Savings 0.012 0.005 0.663 <		(0.042)	(0.042)	(0.043)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Subsistence Farmer	0.032	-0.091**	-0.079**
Entrepreneur -0.022 -0.033 -0.039 Income Last Week -0.003 0.000 0.005^* Income Last Week -0.009 0.055 0.069^* (0.035) (0.036) (0.036) (0.037) Has Bank Account -0.009 0.055 0.069^* (0.035) (0.036) (0.036) (0.036) Has SACCO Account 0.044 -0.019 0.043 (0.078) (0.085) (0.083) Participates in ROSCA 0.004 -0.002 0.023 Saves at Home 0.037 -0.051 -0.019 (0.026) (0.026) (0.036) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 Husband Does Most Savings 0.012 0.003 0.077 Wife Does Most Savings 0.012 0.003 0.075 Both Spouses Save -0.057 0.051 0.092 (0.084) (0.067) (0.066) 0.077 0.066		(0.038)	(0.040)	(0.039)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Entrepreneur	-0.022	-0.033	-0.039
$\begin{array}{c ccccc} (0.003) & (0.005) & (0.005) \\ (0.003) & (0.002) & (0.003) \\ Has Bank Account & -0.009 & 0.055 & 0.069^* \\ (0.035) & (0.036) & (0.036) \\ Has SACCO Account & 0.044 & -0.019 & 0.043 \\ (0.078) & (0.085) & (0.083) \\ Participates in ROSCA & 0.004 & -0.002 & 0.023 \\ (0.025) & (0.026) & (0.026) \\ Saves at Home & 0.037 & (0.037) & (0.036) \\ (0.037) & (0.037) & (0.036) \\ Cash Savings (Bank+SACCO+Home) & 0.000 & 0.000 & -0.001 \\ (0.001) & (0.001) & (0.001) & (0.001) \\ Husband Does Most Savings & -0.014 & 0.038 & 0.038 \\ (0.084) & (0.089) & (0.077) \\ Wife Does Most Savings & 0.012 & 0.005 & 0.063 \\ (0.082) & (0.088) & (0.075) \\ Both Spouses Save & -0.057 & 0.051 & 0.092 \\ (0.086) & (0.092) & (0.080) \\ Husband Decides How Money is Spent & -0.026 & 0.032 & 0.073 \\ (0.064) & (0.067) & (0.061) \\ Wife Decides How Money is Spent & -0.057 & 0.063 & 0.087 \\ (0.066) & (0.070) & (0.066) \\ Both Spouses Decide How Money is Spent & -0.057 & 0.063 & 0.087 \\ (0.066) & (0.070) & (0.066) \\ Both Spouses Decide How Money is Spent & -0.054 & 0.010 & 0.036 \\ (0.069) & (0.072) & (0.066) \\ Both Spouses Decide How Money is Spent & -0.054 & 0.010 & 0.036 \\ (0.066) & (0.070) & (0.061) \\ Impatient Now-Patient Later & 0.015 & -0.033 & -0.023 \\ (0.028) & (0.029) & (0.029) \\ Distance from Bank (Miles) & 0.014^* & -0.026^{***} & -0.093^{***} \\ (0.008) & (0.008) & (0.008) \\ Husband's Relative Bargaining Power & 0.062^* & -0.062^{**} & -0.093^{***} \\ (0.031) & (0.031) \\ Confirmed Couple (Endline) & -0.151 & -0.131 & -0.254^{***} \\ (0.094) & (0.091) & (0.088) \\ DV Mean & 0.673 & 0.409 & 0.397 \\ N & 1558 & 1558 \\ \end{array}$	Lintopronoul	(0.035)	(0.036)	(0.036)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Income Last Week	-0.003	0.000	0.005*
Has Bank Account (0.002) (0.002) (0.003) Has SACCO Account 0.044 -0.019 0.043 (0.078) (0.085) (0.083) Participates in ROSCA 0.004 -0.002 0.023 (0.025) (0.026) (0.026) Saves at Home 0.037 -0.051 -0.019 (0.037) (0.037) (0.037) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 (0.001) (0.001) (0.001) (0.001) Husband Does Most Savings -0.014 0.038 0.038 (0.084) (0.089) (0.077) Wife Does Most Savings 0.012 (0.082) (0.088) (0.082) (0.088) (0.075) 0.092 Both Spouses Save -0.057 0.051 0.092 (0.086) (0.092) (0.080) (0.061) Wife Decides How Money is Spent -0.059 0.063 0.037 (0.066) (0.072) (0.066) 0.0131 (0.031) <th>moomo East Wook</th> <td>(0.003)</td> <td>(0.002)</td> <td>(0.003)</td>	moomo East Wook	(0.003)	(0.002)	(0.003)
Has Factorial 0.003 0.003 0.003 (0.035) (0.036) (0.036) (0.036) Has SACCO Account 0.044 -0.019 0.043 (0.078) (0.085) (0.026) Participates in ROSCA 0.004 -0.002 0.023 Saves at Home 0.037 -0.051 -0.019 (0.037) (0.037) (0.036) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 (0.081) (0.081) (0.089) (0.077) Husband Does Most Savings -0.012 0.005 0.063 (0.082) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 bath Spouses Save -0.026 0.032 0.073 0.064 0.089 0.073 Wife Does Most Savings 0.012 0.063 0.087 0.064 0.067 0.061 Husband Decides How Money is Spent -0.026 0.032 0.073 0.066 Both Spouses Decide How Money is Spent 0.054 0.010	Has Bank Account	0.000	0.055	0.060*
Has SACCO Account (0.033) (0.033) (0.033) Participates in ROSCA 0.004 -0.002 0.023 (0.025) (0.026) (0.026) Saves at Home 0.037 -0.051 -0.019 (0.037) (0.037) (0.036) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 (0.001) (0.001) (0.001) (0.001) Husband Does Most Savings -0.014 0.038 0.038 (0.084) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 (0.086) (0.092) (0.080) (0.075) Both Spouses Save -0.057 0.051 0.092 (0.066) (0.072) (0.066) 0.072 (0.066) Husband Decides How Money is Spent -0.026 0.032 0.073 (0.066) (0.070) (0.064) (0.072) (0.066) Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (0.028)	Has Dank Account	(0.035)	(0.036)	(0.003)
Has JACCO Account 0.044 -0.019 0.043 (0.078) (0.085) (0.083) Participates in ROSCA 0.004 -0.002 0.023 (0.025) (0.026) (0.026) 0.023 Saves at Home 0.037 -0.051 -0.019 (0.037) (0.037) (0.036) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 (0.001) (0.001) (0.001) (0.001) Husband Does Most Savings -0.014 0.038 0.038 (0.084) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 (0.086) (0.092) (0.080) (0.075) Both Spouses Save -0.026 0.032 0.073 (0.064) (0.067) (0.061) (0.066) Husband Decides How Money is Spent -0.026 0.033 0.087 (0.069) (0.072) (0.066) 0.072 (0.066) Both Spouses Decide How Money is Spent 0.054	Has SACCO Account	0.044	(0.030)	(0.030)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	has SACCO Account	(0.044)	-0.019	(0.043)
Participates in ROSCA 0.004 -0.002 0.025 Saves at Home (0.025) (0.026) (0.026) Saves at Home (0.037) (0.037) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 (0.001) (0.001) (0.001) (0.001) Husband Does Most Savings -0.014 0.038 0.038 (0.084) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 (0.082) (0.088) (0.075) 0.051 0.092 Both Spouses Save -0.057 0.051 0.092 (0.080) Husband Decides How Money is Spent -0.026 0.032 0.073 Wife Decides How Money is Spent 0.054 0.010 0.036 (0.066) (0.070) (0.064) 0.063 0.087 (0.026) 0.054 0.010 0.036 0.023 Husband Decides How Money is Spent 0.054 0.010 0.036 (0.028) (0.029) (0.031)	Denticipates in DOSCA	(0.078)	(0.085)	(0.085)
$\begin{array}{c ccccc} (0.025) & (0.026) & (0.026) \\ (0.037) & (0.037) & (0.036) \\ (0.037) & (0.037) & (0.036) \\ (0.037) & (0.037) & (0.036) \\ (0.037) & (0.037) & (0.036) \\ (0.037) & (0.037) & (0.036) \\ (0.037) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.002) & (0.088) \\ (0.088) & (0.075) \\ (0.088) & (0.088) & (0.075) \\ (0.080) & (0.088) & (0.075) \\ (0.080) & (0.088) & (0.075) \\ (0.080) & (0.088) & (0.075) \\ (0.080) & (0.080) & (0.080) \\ (0.080) & (0.072) & (0.080) \\ (0.066) & (0.072) & (0.066) \\ (0.066) & (0.070) & (0.066) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (0.031) & (0.031) & (0.031) \\ (0.031) & (0.031) & (0.031) \\ Patient Now-Patient Later & 0.009 & 0.006 & -0.005 \\ & (0.028) & (0.029) & (0.029) \\ Distance from Bank (Miles) & 0.014* & -0.022** & -0.026*** \\ & (0.032) & (0.030) & (0.033) \\ Surveyed at Endline & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & (0.051) & (0.053) & (0.051) \\ Confirmed Couple (Endline) & 0.151 & -0.131 & -0.254^{***} \\ & (0.094) & (0.091) & (0.088) \\ DV Mean & 0.673 & 0.409 & 0.397 \\ \end{array}$	Participates in ROSCA	0.004	-0.002	0.025
Saves at Home 0.037 -0.051 -0.019 (0.037) (0.037) (0.036) Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 (0.001) (0.001) (0.001) (0.001) Husband Does Most Savings -0.014 0.038 0.038 (0.084) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 (0.082) (0.088) (0.075) Both Spouses Save -0.057 0.051 0.092 (0.086) (0.092) (0.080) Husband Decides How Money is Spent -0.026 0.032 0.073 Wife Decides How Money is Spent -0.059 0.063 0.087 (0.064) (0.066) (0.070) (0.064) Impatient Now-Patient Later 0.015 -0.033 -0.023 (0.028) (0.029) (0.029) (0.029) Distance from Bank (Miles) 0.014^* -0.020^{***} -0.026^{***} (0.032) (0.030) (0.033) (0.033) Surveyed at Endline <	C II	(0.025)	(0.026)	(0.026)
$\begin{array}{c ccccc} (0.037) & (0.037) & (0.036) \\ (0.037) & (0.037) & (0.036) \\ (0.000 & 0.000 & -0.001 \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.003) \\ (0.084) & (0.089) & (0.077) \\ (0.084) & (0.089) & (0.077) \\ (0.082) & (0.088) & (0.075) \\ (0.082) & (0.088) & (0.075) \\ (0.086) & (0.092) & (0.080) \\ (0.086) & (0.092) & (0.080) \\ (0.086) & (0.092) & (0.080) \\ (0.064) & (0.067) & (0.061) \\ (0.069) & (0.072) & (0.066) \\ (0.069) & (0.072) & (0.066) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (1mpatient Now-Patient Later & 0.015 & -0.033 & -0.023 \\ & (0.031) & (0.031) & (0.031) \\ (0.031) & (0.031) & (0.031) \\ Patient Now-Impatient Later & 0.009 & 0.006 & -0.005 \\ & (0.028) & (0.029) & (0.029) \\ 0.029) & 0.029 & (0.029) \\ 0.028) & (0.008) & (0.008) \\ (1usband's Relative Bargaining Power & 0.062* & -0.062** & -0.093*** \\ & (0.032) & (0.030) & (0.033) \\ Surveyed at Endline & -0.124*** & 0.124*** & 0.161*** \\ & (0.051) & (0.053) & (0.051) \\ Confirmed Couple (Endline) & 0.151 & -0.131 & -0.254*** \\ & (0.094) & (0.091) & (0.088) \\ DV Mean & 0.673 & 0.409 & 0.397 \\ \end{array}$	Saves at Home	0.037	-0.051	-0.019
Cash Savings (Bank+SACCO+Home) 0.000 0.000 -0.001 Husband Does Most Savings -0.014 0.038 0.038 (0.084) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 (0.082) (0.088) (0.075) 0.092 Both Spouses Save -0.057 0.051 0.092 Husband Decides How Money is Spent -0.026 0.032 0.073 (0.064) (0.067) (0.061) Wife Decides How Money is Spent -0.059 0.063 0.087 (0.069) (0.072) (0.066) 0.070 (0.064) Wife Docides How Money is Spent 0.054 0.010 0.036 (0.069) (0.072) (0.066) 0.070 (0.064) Impatient Now-Patient Later 0.0015 -0.033 -0.023 (0.031) (0.031) (0.031) (0.031) (0.031) Patient Now-Impatient Later 0.006 -0.005 (0.029)		(0.037)	(0.037)	(0.036)
$\begin{array}{c cccccc} (0.001) & (0.001) & (0.001) \\ (0.001) & (0.001) & (0.001) \\ (0.081) & (0.082) & (0.089) & (0.077) \\ (0.081) & (0.082) & (0.088) & (0.075) \\ (0.082) & (0.088) & (0.075) \\ (0.082) & (0.088) & (0.075) \\ (0.086) & (0.092) & (0.080) \\ (0.086) & (0.092) & (0.080) \\ (0.086) & (0.092) & (0.080) \\ (0.064) & (0.067) & (0.061) \\ (0.066) & (0.067) & (0.061) \\ (0.066) & (0.070) & (0.066) \\ (0.066) & (0.070) & (0.066) \\ (0.066) & (0.070) & (0.066) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (0.066) & (0.070) & (0.064) \\ (0.031) & (0.031) & (0.031) \\ (0.031) & (0.031) & (0.031) \\ (0.031) & (0.031) & (0.031) \\ (0.028) & (0.029) & (0.029) \\ (0.029) & (0.029) \\ (0.029) & (0.029) & (0.029) \\ (0.032) & (0.030) & (0.033) \\ Surveyed at Endline & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ (0.051) & (0.053) & (0.051) \\ Confirmed Couple (Endline) & 0.151 & -0.131 & -0.254^{***} \\ (0.094) & (0.091) & (0.088) \\ DV Mean & 0.673 & 0.409 & 0.397 \\ N & 1558 & 1558 & 1558 \\ \end{array}$	Cash Savings (Bank+SACCO+Home)	0.000	0.000	-0.001
Husband Does Most Savings -0.014 0.038 0.038 (0.084) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 (0.082) (0.088) (0.075) Both Spouses Save -0.057 0.051 0.092 (0.086) (0.092) (0.080) Husband Decides How Money is Spent -0.059 0.063 0.073 (0.064) (0.067) (0.061) Wife Decides How Money is Spent -0.059 0.063 0.087 (0.069) (0.072) (0.066) Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (0.066) (0.070) (0.064) 0.031) (0.031) Impatient Now-Patient Later 0.015 -0.033 -0.023 (0.028) (0.029) (0.029) (0.029) Distance from Bank (Miles) 0.014* -0.020*** -0.026*** (0.032) (0.030) (0.033) (0.033) Surveyed at Endline -0.124*** 0.124*** 0.161*** (0.051) (0.053) (0.051) (0.0		(0.001)	(0.001)	(0.001)
(0.084) (0.089) (0.077) Wife Does Most Savings 0.012 0.005 0.063 (0.082) (0.088) (0.075) Both Spouses Save -0.057 0.051 0.092 (0.086) (0.092) (0.080) Husband Decides How Money is Spent -0.026 0.032 0.073 (0.064) (0.067) (0.061) Wife Decides How Money is Spent -0.059 0.063 0.087 (0.069) (0.072) (0.066) Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (0.066) (0.070) (0.064) Impatient Now-Patient Later 0.015 -0.033 -0.023 (0.028) (0.029) (0.029) (0.029) Distance from Bank (Miles) 0.014^* -0.020^{***} -0.026^{***} (0.031) (0.030) (0.033) (0.033) Surveyed at Endline -0.124^{***} 0.124^{***} 0.161^{***} (0.094) (0.091) (0.088) 0.091 DV Mean 0.673 0.409 0.397 N 1558 1558 1558	Husband Does Most Savings	-0.014	0.038	0.038
Wife Does Most Savings 0.012 0.005 0.063 (0.082) (0.088) (0.075) Both Spouses Save -0.057 0.051 0.092 (0.086) (0.092) (0.080) Husband Decides How Money is Spent -0.026 0.032 0.073 (0.064) (0.067) (0.061) Wife Decides How Money is Spent -0.059 0.063 0.087 (0.069) (0.072) (0.066) Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (0.066) (0.070) (0.064) Impatient Now-Patient Later 0.015 -0.033 -0.023 (0.028) (0.029) (0.029) (0.029) Distance from Bank (Miles) 0.014^* -0.026^{***} -0.026^{***} (0.032) (0.030) (0.033) (0.033) Surveyed at Endline -0.124^{***} 0.124^{***} 0.161^{***} (0.094) (0.091) (0.088) 0.0051 Confirmed Couple (Endline) 0.151 -0.131 -0.254^{***}		(0.084)	(0.089)	(0.077)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Wife Does Most Savings	0.012	0.005	0.063
Both Spouses Save -0.057 0.051 0.092 (0.086) (0.092) (0.080) Husband Decides How Money is Spent -0.026 0.032 0.073 (0.064) (0.067) (0.061) Wife Decides How Money is Spent -0.059 0.063 0.087 (0.069) (0.072) (0.066) Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (mpatient Now-Patient Later 0.015 -0.033 -0.023 (mpatient Now-Patient Later 0.009 0.006 -0.005 (model) (0.031) (0.031) (0.031) Patient Now-Impatient Later 0.009 0.006 -0.005 (model) 0.014^* -0.020^{***} -0.026^{***} (model) 0.014^* -0.020^{***} -0.026^{***} (model) 0.014^* -0.020^{***} -0.026^{***} (model) 0.008 (0.008) (0.008) Husband's Relative Bargaining Power 0.062^* -0.062^{**} 0.033 Surveyed at Endline -0.124		(0.082)	(0.088)	(0.075)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Both Spouses Save	-0.057	0.051	0.092
Husband Decides How Money is Spent -0.026 0.032 0.073 (0.064) (0.067) (0.061) Wife Decides How Money is Spent -0.059 0.063 0.087 (0.069) (0.072) (0.066) Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (0.066) (0.070) (0.064) (0.064) Impatient Now-Patient Later 0.015 -0.033 -0.023 (0.031) (0.031) (0.031) (0.031) Patient Now-Impatient Later 0.009 0.006 -0.005 (0.028) (0.029) (0.029) (0.029) Distance from Bank (Miles) 0.014* -0.020*** -0.026*** (0.032) (0.030) (0.033) Surveyed at Endline -0.124*** 0.124*** 0.161*** (0.051) (0.053) (0.051) (0.051) Confirmed Couple (Endline) 0.151 -0.131 -0.254*** (0.094) (0.091) (0.088) DV Mean 0.673 0.409 0.397		(0.086)	(0.092)	(0.080)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Husband Decides How Money is Spent	-0.026	0.032	0.073
Wife Decides How Money is Spent -0.059 0.063 0.087 (0.069) (0.072) (0.066) Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (0.066) (0.070) (0.064) Impatient Now-Patient Later 0.015 -0.033 -0.023 (0.031) (0.031) (0.031) (0.031) Patient Now-Impatient Later 0.009 0.006 -0.005 (0.028) (0.029) (0.029) (0.029) Distance from Bank (Miles) 0.014^* -0.020^{***} -0.026^{***} (0.008) (0.008) (0.008) (0.008) Husband's Relative Bargaining Power 0.062^* -0.062^{**} -0.093^{***} (0.032) (0.030) (0.033) Surveyed at Endline -0.124^{***} 0.161^{***} Confirmed Couple (Endline) 0.151 -0.131 -0.254^{***} (0.094) (0.091) (0.088) DV Mean 0.673 0.409 0.397 N 1558 1558 1558		(0.064)	(0.067)	(0.061)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Wife Decides How Money is Spent	-0.059	0.063	0.087
Both Spouses Decide How Money is Spent 0.054 0.010 0.036 (mpatient Now-Patient Later 0.015 -0.033 -0.023 (mpatient Now-Patient Later 0.015 -0.031 (0.031) Patient Now-Impatient Later 0.009 0.006 -0.005 (mpatient Now-Impatient Later 0.014^* -0.020^{***} -0.026^{***} (mpatient Segmining Power 0.062^* -0.062^{**} -0.093^{***} (mpatient Segmining Power 0.062^* -0.062^** -0.093^**^* (mpatient Segmining Power 0.062^* 0.030 (0.031) <t< th=""><th></th><th>(0.069)</th><th>(0.072)</th><th>(0.066)</th></t<>		(0.069)	(0.072)	(0.066)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Both Spouses Decide How Money is Spent	0.054	0.010	0.036
$\begin{array}{c cccccc} \mbox{Impatient Later} & 0.015 & -0.033 & -0.023 \\ & (0.031) & (0.031) & (0.031) \\ \mbox{Patient Now-Impatient Later} & 0.009 & 0.006 & -0.005 \\ & (0.028) & (0.029) & (0.029) \\ \mbox{Distance from Bank (Miles)} & 0.014^* & -0.020^{***} & -0.026^{***} \\ & (0.008) & (0.008) & (0.008) \\ \mbox{Husband's Relative Bargaining Power} & 0.062^* & -0.062^{**} & -0.093^{***} \\ & (0.032) & (0.030) & (0.033) \\ \mbox{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & (0.051) & (0.053) & (0.051) \\ \mbox{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ & (0.094) & (0.091) & (0.088) \\ \mbox{DV Mean} & 0.673 & 0.409 & 0.397 \\ \mbox{N} & 1558 & 1558 \\ \end{array}$		(0.066)	(0.070)	(0.064)
$\begin{array}{ccccc} & (0.031) & (0.031) & (0.031) \\ \mbox{Patient Now-Impatient Later} & 0.009 & 0.006 & -0.005 \\ & (0.028) & (0.029) & (0.029) \\ \mbox{Distance from Bank (Miles)} & 0.014^{*} & -0.020^{***} & -0.026^{***} \\ & (0.008) & (0.008) & (0.008) \\ \mbox{Husband's Relative Bargaining Power} & 0.062^{*} & -0.062^{**} & -0.093^{***} \\ & (0.032) & (0.030) & (0.033) \\ \mbox{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & (0.051) & (0.053) & (0.051) \\ \mbox{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ & (0.094) & (0.091) & (0.088) \\ \mbox{DV Mean} & 0.673 & 0.409 & 0.397 \\ \mbox{N} & 1558 & 1558 & 1558 \\ \end{array}$	Impatient Now-Patient Later	0.015	-0.033	-0.023
$\begin{array}{ccccc} \mbox{Patient Now-Impatient Later} & 0.009 & 0.006 & -0.005 \\ & (0.028) & (0.029) & (0.029) \\ \mbox{Distance from Bank (Miles)} & 0.014^* & -0.020^{***} & -0.026^{***} \\ & (0.008) & (0.008) & (0.008) \\ \mbox{Husband's Relative Bargaining Power} & 0.062^* & -0.062^{**} & -0.093^{***} \\ & (0.032) & (0.030) & (0.033) \\ \mbox{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & (0.051) & (0.053) & (0.051) \\ \mbox{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ & (0.094) & (0.091) & (0.088) \\ \mbox{DV Mean} & 0.673 & 0.409 & 0.397 \\ \mbox{N} & 1558 & 1558 \end{array}$		(0.031)	(0.031)	(0.031)
$\begin{array}{cccc} (0.028) & (0.029) & (0.029) \\ \mbox{Distance from Bank (Miles)} & 0.014^{*} & -0.020^{***} & -0.026^{***} \\ (0.008) & (0.008) & (0.008) \\ \mbox{Husband's Relative Bargaining Power} & 0.062^{*} & -0.062^{**} & -0.093^{***} \\ (0.032) & (0.030) & (0.033) \\ \mbox{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ (0.051) & (0.053) & (0.051) \\ \mbox{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ (0.094) & (0.091) & (0.088) \\ \mbox{DV Mean} & 0.673 & 0.409 & 0.397 \\ \mbox{N} & 1558 & 1558 & 1558 \end{array}$	Patient Now-Impatient Later	0.009	0.006	-0.005
$\begin{array}{cccc} \text{Distance from Bank (Miles)} & 0.014^{*} & -0.020^{***} & -0.026^{***} \\ & (0.008) & (0.008) & (0.008) \\ \text{Husband's Relative Bargaining Power} & 0.062^{*} & -0.062^{**} & -0.093^{***} \\ & (0.032) & (0.030) & (0.033) \\ \text{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & (0.051) & (0.053) & (0.051) \\ \text{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ & (0.094) & (0.091) & (0.088) \\ \text{DV Mean} & 0.673 & 0.409 & 0.397 \\ \text{N} & 1558 & 1558 & 1558 \end{array}$		(0.028)	(0.029)	(0.029)
$\begin{array}{cccc} & (0.008) & (0.008) & (0.008) \\ \mbox{Husband's Relative Bargaining Power} & 0.062^{*} & -0.062^{**} & -0.093^{***} \\ & (0.032) & (0.030) & (0.033) \\ \mbox{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & (0.051) & (0.053) & (0.051) \\ \mbox{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ & (0.094) & (0.091) & (0.088) \\ \mbox{DV Mean} & 0.673 & 0.409 & 0.397 \\ \mbox{N} & 1558 & 1558 & 1558 \end{array}$	Distance from Bank (Miles)	0.014^{*}	-0.020***	-0.026***
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		(0.008)	(0.008)	(0.008)
$\begin{array}{cccc} & (0.032) & (0.030) & (0.033) \\ \text{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & (0.051) & (0.053) & (0.051) \\ \text{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ & (0.094) & (0.091) & (0.088) \\ \text{DV Mean} & 0.673 & 0.409 & 0.397 \\ \text{N} & 1558 & 1558 & 1558 \end{array}$	Husband's Relative Bargaining Power	0.062^{*}	-0.062**	-0.093***
$ \begin{array}{c cccc} \text{Surveyed at Endline} & -0.124^{***} & 0.124^{***} & 0.161^{***} \\ & & (0.051) & (0.053) & (0.051) \\ \text{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ & & (0.094) & (0.091) & (0.088) \\ \text{DV Mean} & 0.673 & 0.409 & 0.397 \\ \text{N} & & 1558 & 1558 & 1558 \\ \end{array} $		(0.032)	(0.030)	(0.033)
$\begin{array}{c} (0.051) & (0.053) & (0.051) \\ \text{Confirmed Couple (Endline)} & 0.151 & -0.131 & -0.254^{***} \\ (0.094) & (0.091) & (0.088) \\ \text{DV Mean} & 0.673 & 0.409 & 0.397 \\ \text{N} & 1558 & 1558 & 1558 \end{array}$	Surveyed at Endline	-0.124***	0.124***	0.161***
Confirmed Couple (Endline) 0.151 -0.131 -0.254*** (0.094) (0.091) (0.088) DV Mean 0.673 0.409 0.397 N 1558 1558 1558	-	(0.051)	(0.053)	(0.051)
(0.094) (0.091) (0.088) DV Mean 0.673 0.409 0.397 N 1558 1558 1558	Confirmed Couple (Endline)	0.151	-0.131	-0.254***
DV Mean 0.673 0.409 0.397 N 1558 1558 1558	L (7)	(0.094)	(0.091)	(0.088)
N 1558 1558 1558	DV Mean	0.673	0.409	0.397
1000 1000 1000	Ν	1558	1558	1558

Notes: Robust standard errors clustered at the couple level in parentheses. Missing values of all covariates are recoded to zero and missing dummies are included in each regression. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		Short-Run M	Measures (Firs	st 6 Months)			Long-Run Measures (Next 2.5 Years)			
			Number					Number		
		Number	With-	Value	Value With-	Active (Final	Number	With-	Value	Value With-
	Active	Deposits	drawals	Deposits	drawals	Year)	Deposits	drawals	Deposits	drawals
Panel A. Pooled Impact of ATM	Cards									
Free ATM	0.028	0.166	0.272^{**}	889*	895**	0.040^{*}	0.769^{*}	1.32^{**}	5866^{*}	5900*
	(0.032)	(0.132)	(0.129)	(535)	(451)	(0.022)	(0.402)	(0.585)	(3435)	(3472)
Panel B. Impact of ATM Cards b	rgaAddt0274ype	0.192	0.335	1660^{*}	1469^{*}	0.054	1.42^{**}	2.41^{***}	10959^{*}	11286^{*}
Free ATM	(0.051)	(0.214)	(0.211)	(991)	(835)	(0.035)	(0.642)	(1.02)	(6175)	(6195)
	0.066	0.287	0.106	-825	-595	-0.003	-0.692	-1.54	-8238	-8707
Free ATM \times Husband	(0.076)	(0.368)	(0.365)	(1297)	(1149)	(0.058)	(1.16)	(1.60)	(9357)	(9441)
	-0.052	-0.376	-0.329	-1947*	-1468	-0.047	-1.64**	-2.40**	-10099	-10686
Free ATM \times Wife	(0.072)	(0.259)	(0.252)	(1174)	(939)	(0.050)	(0.766)	(1.13)	(6788)	(6836)
P-value: Husband's ATM=0	0.125	0.108	0.142	0.320	0.271	0.267	0.446	0.470	0.691	0.711
P-value: Wife's ATM=0	0.580	0.212	0.967	0.656	1.000	0.851	0.603	0.978	0.783	0.851
P-value: Husband's=Wife's	0.120	0.047^{**}	0.198	0.287	0.334	0.462	0.370	0.515	0.806	0.798
Panel C. Is Impact of ATM Card	s for Wives	Different?								
Free ATM	0.049	0.302^{*}	0.375^{**}	1344^{*}	1241**	0.053^{*}	1.15^{**}	1.83^{***}	7804*	7951*
	(0.039)	(0.173)	(0.174)	(693)	(599)	(0.028)	(0.532)	(0.776)	(4570)	(4612)
Free ATM×Wife	-0.077	-0.486**	-0.370	-1631*	-1241*	-0.046	-1.38**	-1.81**	-6946	-7353
	(0.064)	(0.229)	(0.226)	(937)	(738)	(0.046)	(0.687)	(0.920)	(5459)	(5533)
DV Mean (No ATM, No Cash)	0.199	0.555	0.284	1232	760	0.067	1.82	1.19	6319	6226
Ν	1114	1114	1114	1114	1114	1114	1114	1114	1114	1114

Appendix Table A3. Impact of Free ATM Cards on Account Use - Components of the Standardized Summary Indices

Notes: Robust standard errors clustered at the couple level are in parentheses. All regressions include dummy variables for the first 6 experimental sessions, cash prize receipt for each spouse, account type dummies, and cash prize×account type interactions, as well as interest rate dummies. Both the number and value of deposits and withdrawals are topcoded to the 99th percentile among open accounts. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	. ,	. ,	• •	. ,	• •	• • •	. ,
A. Short-Run Measures of Accourt	nt Use (Firs	t 6 Months)				
			Number		Value	Number	
		Number	With-	Value	With-	Trans-	Standard-
	Active	Deposits	drawals	Deposits	drawals	actions	ized Use
4 Percent Interest	0.015	0.054	0.046	178	84.8	0.106	0.033
	(0.016)	(0.066)	(0.050)	(196)	(147)	(0.109)	(0.033)
12 Percent Interest	0.047^{***}	0.129^{*}	0.066	205	179	0.191^{*}	0.068*
	(0.017)	(0.068)	(0.056)	(214)	(182)	(0.114)	(0.037)
20 Percent Interest	0.086^{***}	0.293^{***}	0.193^{***}	769***	599***	0.504^{***}	0.171^{***}
	(0.018)	(0.074)	(0.064)	(252)	(210)	(0.132)	(0.042)
DV Mean (No Int., No Cash)	0.038	0.100	0.044	260	109	0.145	-0.248
Ν	2337	2337	2337	2337	2337	2337	2337
B. Long-Run Measures of Accoun	t Use (6 Me	onths-3 Yea	rs)				
	Active		Number		Value	Number	
	(Last	Number	With-	Value	With-	Trans-	Standard-
	Year)	Deposits	drawals	Deposits	drawals	actions	ized Use
4 Percent Interest	-0.003	0.466^{***}	0.046	238	363	0.568	0.026
	(0.010)	(0.163)	(0.221)	(1172)	(1208)	(0.381)	(0.034)
12 Percent Interest	0.018	0.688^{***}	0.246	1968	1586	0.994^{***}	0.078^{**}
	(0.011)	(0.174)	(0.230)	(1423)	(1412)	(0.397)	(0.037)
20 Percent Interest	0.039^{***}	1.20^{***}	0.810***	4034**	4125**	2.01***	0.168^{***}
	(0.013)	(0.239)	(0.304)	(1788)	(1851)	(0.520)	(0.049)
DV Mean (No Int., No Cash)	0.015	0.209	0.280	1430	1468	0.475	-0.210
Ν	2337	2337	2337	2337	2337	2337	2337

Appendix Table A4. Impact of Temporary Interest Rates on Account Use

(1)

(2)

(3)

(4)

(5)

(6)

(7)

Notes: Robust standard errors clustered at the couple level are in parentheses. All regressions include dummy variables for the first 6 experimental sessions, cash prize receipt for each spouse, account type dummies, and cash prize×account type interactions, as well as dummies for ex-ante ATM selection. Both the number and value of deposits and withdrawals are topcoded to the 99th percentile among open accounts. The use index averages standardized values of an account activity dummy, the number of deposits, the number of withdrawals, the value of deposits, and the value of withdrawals. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
					Saves with			
	Has Bank	Has SACCO	ROSCA	Saves at	Mobile			Income Last
	Account	Account	Member	Home	Money	Total Assets	Total Debt	Month
Panel A. Pooled Impact of ATM Cards								
Couple Received a Free ATM	0.018	-0.029	-0.083***	0.013	-0.017	3906	-518	202
	(0.029)	(0.024)	(0.030)	(0.030)	(0.032)	(3587)	(1982)	(556)
Panel B. Impact of ATM Cards by Type								
Joint ATM Card	0.024	-0.039	-0.069*	0.038	-0.068	5036	-590	485
	(0.038)	(0.029)	(0.039)	(0.037)	(0.042)	(4386)	(3233)	(758)
Husband's ATM Card	0.086^{*}	-0.011	-0.135***	-0.050	0.101^{**}	8055	2716	820
	(0.048)	(0.044)	(0.053)	(0.054)	(0.049)	(6544)	(4114)	(948)
Wife's ATM Card	-0.088*	-0.029	0.014	0.017	-0.020	-4328	-2466	-270
	(0.050)	(0.041)	(0.053)	(0.053)	(0.052)	(6309)	(3907)	(922)
DV Mean (No ATM, No Cash)	.741	.169	.516	.637	.717	37888	14477	8366
Ν	1363	1366	1366	1365	1362	1039	1346	1230

Appendix Table A5. Impact of Free ATM Card Provision on Endline Economic Outcomes

Notes: The unit of observation is the individual; both men and women are included in all regression specifications. Robust standard errors clustered at the couple level in parentheses. Total assets, debt, and income measures are top-coded at the 99th percentile. Additional controls include an own and spousal cash prize selection dummy, a dummy for the first 6 experimental sessions, dummy variables for the interest rate on each bank account, separate dummy variables indicating that the couple opened the joint, husband's, and wife's account, and a confirmed couple dummy. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
	Mean		Free ATM		Interest Rate			
	(All ATM							
	Elig.)	Husband	Wife	Joint	Husband	Wife	Joint	
Marital status verified ^a	0.968	0.001	-0.018	0.019	0.012	-0.021	-0.007	
		(0.024)	(0.027)	(0.016)	(0.018)	(0.016)	(0.017)	
Confirmed couple ^b	0.905	-0.024	0.106^{***}	0.000	0.012	-0.009	0.005	
		(0.052)	(0.041)	(0.025)	(0.030)	(0.026)	(0.032)	
Interviewed at endline	0.912	0.020	-0.029	0.026	0.017	0.009	0.009	
		(0.032)	(0.035)	(0.022)	(0.023)	(0.021)	(0.024)	
Interviewed at endline and "intact" $^{\rm c}$	0.790	0.039	-0.010	0.015	0.016	0.034	0.062	
		(0.061)	(0.063)	(0.037)	(0.039)	(0.037)	(0.044)	
"Intact" and participated in allocn. game ^c	0.746	0.051	-0.059	0.012	0.046	0.049	0.067	
		(0.066)	(0.068)	(0.043)	(0.043)	(0.041)	(0.048)	
Experimental proxy identified ^d	0.578	0.127^{*}	-0.063	0.002	0.061	0.037	0.094*	
		(0.069)	(0.069)	(0.054)	(0.048)	(0.048)	(0.055)	
N		638	618	972	1498	1498	1498	

Appendix Table A6. Attrition and Correlation With Treatments

Notes: Robust standard errors clustered at the couple level in parentheses. Column 1 gives the average value of each attrition outcome in the full sample of couples with at least one ATM-eligible bank account. Columns 2-7 present individual-level regressions of attrition outcomes on the relevant treatment (sample in columns 2-4 is limited to couples who opened the relevant bank account). All regressions involving ATM treatments also include a dummy for the first 6 experimental sessions. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

^aMarital status verified indicates that at least one of the original spouses in the couple was located at endline to confirm marital status. ^bConfirmed couple indicates that the couple was verified and at least one spouse confirmed that the couple was married at baseline.

^cIntact couples are both confirmed and still married at endline.

^dThe experimental proxy is identified if spouses are intact, participated in the allocation game, and did not provide the same response for all three (husband, wife, joint) allocations.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Standardized Use: No Topcode		Number Transactions		Short-Run Index Components (First 6 Months)					Long-Run Index Components (Next 2.5 Years)					
	First 6 Months	6 Months- 3 Years	Overall	First 6 Months	6 Months- 3 Years	Active	Number Deposits	Number With- drawals	Value Deposits	Value With- drawals	Active (Final Year)	Number Deposits	Number With- drawals	Value Deposits	Value With- drawals
Panal A All Individual Accounts	1110110110	0 10010	overall	1110110110	0 10010	1100110	Doposito	diamais	Deposito	aramais	1001)	Deposito	aranaib	Deposito	
Free ATM	0.965***	0.930**	0.959***	0 879***	9 11*	0 144**	0.405***	0.363**	1720***	1990**	0.071*	1.09*	1 22*	0070*	0665*
Fiee AIM	(0.102)	(0.239)	(0.007)	-0.072	-2.44 (1.26)	-0.144	-0.495	(0.173)	-1750	-1229 (521)	(0.030)	-1.05	(0.700)	-9079	-9005
Erec ATMy Adventered	0.102)	(0.120)	0.007)	(0.339)	(1.50)	0.014**	(0.204)	0.701***	0001)	1055**	0.125**	2.00**	2.01*	14005**	(4907)
Free A1M×Advantaged	(0.423^{+++})	(0.155)	(0.144)	(0.660)	(2, 14)	(0.214)	(0.291)	(0.220)	(1041)	(905)	(0.125^{++})	(1,00)	(1.20)	(6907)	(6002)
	(0.171)	(0.100)	(0.144)	(0.000)	(2.14)	(0.095)	(0.321)	(0.338)	(1041)	(895)	(0.004)	(1.00)	(1.20)	(0807)	(0902)
Advantaged	-0.179***	-0.198	-0.188	-0.591***	-1.99*	-0.150	-0.389****	-0.208	-048	-513	-0.054*	-0.913	-0.991	-/014*	-8045*
	(0.081)	(0.091)	(0.071)	(0.274)	(1.08)	(0.041)	(0.161)	(0.139)	(655)	(535)	(0.033)	(0.450)	(0.651)	(4118)	(4284)
P-value: $ATM + ATM \times Adv = 0$	0.209	0.159	0.136	0.146	0.246	0.257	0.316	0.109	0.468	0.264	0.235	0.141	0.387	0.242	0.244
DV Mean (No ATM, Not Adv.)	0.076	0.079	0.077	1.13	3.71	0.259	0.772	0.354	1529	1004	0.095	2.05	1.57	8434	8661
Ν	628	628	628	628	628	628	628	628	628	628	628	628	628	628	628
Panel B. Men's Accounts															
Free ATM	-0.320*	-0.231	-0.276*	-1.17*	-3.32	-0.084	-0.517	-0.613**	-2173***	-1976**	-0.021	-1.45	-1.66	-13654	-14428
	(0.165)	(0.167)	(0.150)	(0.610)	(2.26)	(0.092)	(0.323)	(0.287)	(930)	(857)	(0.063)	(1.02)	(1.24)	(8744)	(8932)
Free ATM×Advantaged	0.666^{**}	0.312	0.489^{**}	2.79^{**}	4.18	0.157	0.996^{*}	1.51^{**}	4221***	3898^{***}	0.029	2.42	1.61	16918	18404
	(0.305)	(0.252)	(0.233)	(1.28)	(3.96)	(0.149)	(0.569)	(0.654)	(1630)	(1522)	(0.105)	(1.83)	(2.19)	(13014)	(13060)
Advantaged	-0.234^{*}	-0.192	-0.213^{**}	-0.807^{**}	-2.19	-0.104	-0.391*	-0.415^{*}	-1314	-1207	-0.029	-1.09	-0.916	-9499	-10404
	(0.120)	(0.133)	(0.106)	(0.403)	(1.84)	(0.064)	(0.214)	(0.219)	(866)	(792)	(0.040)	(0.699)	(1.15)	(7202)	(7450)
P-value: $ATM + ATM \times Adv. = 0$	0.130	0.642	0.193	0.109	0.765	0.477	0.264	0.087^{*}	0.089^{*}	0.086^{*}	0.912	0.473	0.972	0.674	0.606
DV Mean (No ATM, Not Adv.)	0.063	0.064	0.063	1.14	4.18	0.215	0.738	0.402	1543	1209	0.075	2.24	1.73	9485	9733
Ν	319	319	319	319	319	319	319	319	319	319	319	319	319	319	319
Panel C. Women's Accounts															
Free ATM	-0.385***	-0.322**	-0.354***	-1.12***	-3.09**	-0.235***	-0.699***	-0.422*	-2571**	-1548*	-0.139***	-1.23*	-1.82**	-10421*	-10911*
	(0.139)	(0.162)	(0.120)	(0.417)	(1.45)	(0.096)	(0.254)	(0.216)	(1165)	(859)	(0.056)	(0.673)	(0.830)	(5849)	(5999)
Free ATM×Advantaged	0.475***	0.386**	0.430***	1.42**	3.62**	0.276**	0.729**	0.709**	3280*	2416**	0.221***	1.41*	2.19**	12229*	12360*
	(0.203)	(0.172)	(0.161)	(0.632)	(1.78)	(0.139)	(0.371)	(0.318)	(1721)	(1221)	(0.094)	(0.804)	(1.07)	(6659)	(6814)
Advantaged	-0.258**	-0.220	-0.239**	-0.667*	-1.89	-0.262***	-0.507*	-0.183	-711	-505	-0.089	-0.763	-1.11	-5118	-5062
Taranagea	(0.119)	(0.147)	(0.104)	(0.396)	(1.32)	(0.067)	(0.265)	(0.174)	(999)	(715)	(0.056)	(0.615)	(0.757)	(4623)	(4825)
P-value: ATM+ATM×Adv -0	0 491	0 492	0.456	0.490	0.664	0.613	0.893	0.223	0.507	0.258	0.229	0.775	0.584	0.567	0.658
DV Mean (No ATM Not Adv.)	0.401	0.402	0.400	1 11	3 10	0.317	0.817	0.223	1509	735	0.122	1.80	1 35	7061	7262
N	309	300	300	300	300	300	300	309	300	300	300	300	300	3001	300
N	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309

Appendix Table A7. Heterogeneous Treatment Effects Using Alternative Outcomes

Notes: Robust standard errors (clustered at the couple level in Panel A) in parentheses. All regressions include controls up to the demographic control set, as described in notes to Table 6. ***, **, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8)	(9)
		Main Proxy,	Main Proxy + Savings, Above	Principal	Principal Components +	Spending - I		Experimental	Main Proxy, Confirmed	Monogamous
	Main Proxy, >0	Level Value	Median	Components	Savings	Decide	I Mostly Save	Proxy	Couples Only	Couples Only
Panel A. All Individual Accounts										
Free ATM	-0.155	-0.052	-0.270^{***}	-0.187	-0.161	-0.055	-0.087	-0.054	-0.295^{***}	-0.267^{**}
	(0.120)	(0.073)	(0.111)	(0.118)	(0.148)	(0.096)	(0.093)	(0.182)	(0.101)	(0.123)
Free ATM×Advantaged	0.228	0.423^{**}	0.475^{***}	0.279	0.265	0.135	0.172	0.029	0.484^{***}	0.455^{**}
	(0.195)	(0.207)	(0.196)	(0.173)	(0.202)	(0.201)	(0.161)	(0.288)	(0.159)	(0.200)
Advantaged	-0.135	-0.139*	-0.241^{***}	-0.115	-0.115	0.089	-0.024	-0.119	-0.201***	-0.198*
	(0.085)	(0.080)	(0.087)	(0.086)	(0.090)	(0.082)	(0.072)	(0.120)	(0.079)	(0.106)
P-value: $ATM + ATM \times Adv. = 0$	0.568	0.108	0.162	0.411	0.386	0.605	0.492	0.879	0.092^{*}	0.208
DV Mean (No ATM, Not Adv.)	0.005	0.031	0.110	0.082	0.105	-0.026	0.030	0.088	0.064	0.079
Ν	628	628	628	628	628	628	628	320	530	460
Panel B. Men's Accounts										
Free ATM	0.129	-0.268	-0.300	-0.158	-0.141	-0.001	-0.108	-0.210	-0.345**	-0.451^{**}
	(0.332)	(0.175)	(0.201)	(0.174)	(0.205)	(0.186)	(0.167)	(0.445)	(0.173)	(0.208)
Free ATM×Advantaged	-0.227	0.570	0.476	0.221	0.205	-0.094	0.165	0.177	0.509^{*}	0.848**
	(0.376)	(0.418)	(0.345)	(0.335)	(0.332)	(0.306)	(0.386)	(0.505)	(0.265)	(0.378)
Advantaged	-0.083	-0.176	-0.261*	-0.070	-0.124	0.208*	0.062	-0.351**	-0.213*	-0.292*
	(0.151)	(0.124)	(0.145)	(0.132)	(0.147)	(0.116)	(0.109)	(0.177)	(0.126)	(0.160)
P-value: $ATM + ATM \times Adv. = 0$	0.507	0.351	0.478	0.803	0.787	0.647	0.846	0.866	0.421	0.150
DV Mean (No ATM, Not Adv.)	0.025	0.083	0.125	0.101	0.153	-0.055	0.033	0.252	0.063	0.130
Ν	319	319	319	319	319	319	319	163	270	239
Panel C. Women's Accounts										
Free ATM	-0.197**	0.053	-0.382***	-0.422***	-0.439***	-0.137	-0.166	0.031	-0.345***	-0.299*
	(0.088)	(0.121)	(0.134)	(0.165)	(0.170)	(0.093)	(0.125)	(0.127)	(0.121)	(0.180)
Free ATM×Advantaged	0.394	0.596***	0.510***	0.483**	0.501**	0.365	0.176	-0.286	0.466***	0.458*
0	(0.264)	(0.232)	(0.204)	(0.238)	(0.233)	(0.255)	(0.140)	(0.199)	(0.184)	(0.246)
Advantaged	-0.100	-0.113	-0.186	-0.190	-0.105	-0.043	-0.113	0.101	-0.231**	-0.096
<u> </u>	(0.121)	(0.080)	(0.117)	(0.133)	(0.126)	(0.114)	(0.090)	(0.150)	(0.110)	(0.144)
P-value: ATM+ATM×Adv.=0	0.435	0.052*	0.415	0.650	0.665	0.373	0.933	0.090*	0.358	0.351
DV Mean (No ATM, Not Adv.)	-0.001	-0.023	0.091	0.051	0.031	-0.007	0.027	-0.037	0.066	0.005
N	309	309	309	309	309	309	309	157	260	221

Appendix Table A8. Heterogeneous Treatment Effects: Robustness to Alternative Proxies and Samples

Notes: The outcome in all regressions is overall standardized account use. Column headers specify different bargaining power proxies/subsamples. Robust standard errors (clustered at the couple level in Panel A) in parentheses. All regressions include controls up to the demographic control set, as described in notes to Table 6. All bargaining power proxies are set to missing for unconfirmed couples. Main proxy, >0 sets Advantaged=1 if the level value of the main proxy is greater than zero. Main proxy + savings includes the standardized difference in spousal cash savings in the bargaining power proxy. The principal components measures indicate that the first principal component of standardized spousal differences is above-median. When the independent variable is the level value of the bargaining power index I present the dependent variable mean for all individuals with no ATM. ***, ***, and * indicate significance at the 1, 5, and 10 percent levels respectively.

	(1)	(2)	(3)	(4)
	Participating	Primary	Located In	Implied
School	Couples	Enrollment	Township?	Takeup
School 1	77	793	Ν	0.222
School 2	55	873	Ν	0.144
School 3	32	905	Ν	0.081
School 4	82	727	Ν	0.258
School 5	28	503	Ν	0.127
School 6	75	696	Ν	0.247
School 7	65	761	Ν	0.196
School 8	49	716	Ν	0.157
School 9 and 10	33	1244	Ν	0.061
School 11	26	778	Ν	0.077
School 12	52	912	Ν	0.131
School 13	36	1208	Υ	0.068
School 14	26	1832	Υ	0.033
School 15	57	1450	Y	0.090
School 16	36	1138	Y	0.072
School 17	14	771	Y	0.042
School 18 and 19	36	1213	Y	0.068
Total - Outside Township	574	8908		0.148
Total - Inside Township	205	7612		0.062
Total	779	16520		0.108

Appendix Table A9. Study Participation Among Co-Resident Married Couples

Notes: School enrollment data is from the Kenya Ministry of Education and was collected in 2007, accessed via www.opendata.go.ke on December 5, 2014. Schools 9 and 10 are single-sex schools serving the same catchment area. School 19 is not a primary school and is located opposite School 18. I therefore combine experimental attendance for these two sites and use enrollment data for School 18. I assume that there is one married corresident couple for every 2.29 students enrolled in a primary school. This ratio is estimated using 2009 Kenyan census data for Busia and Teso South districts.