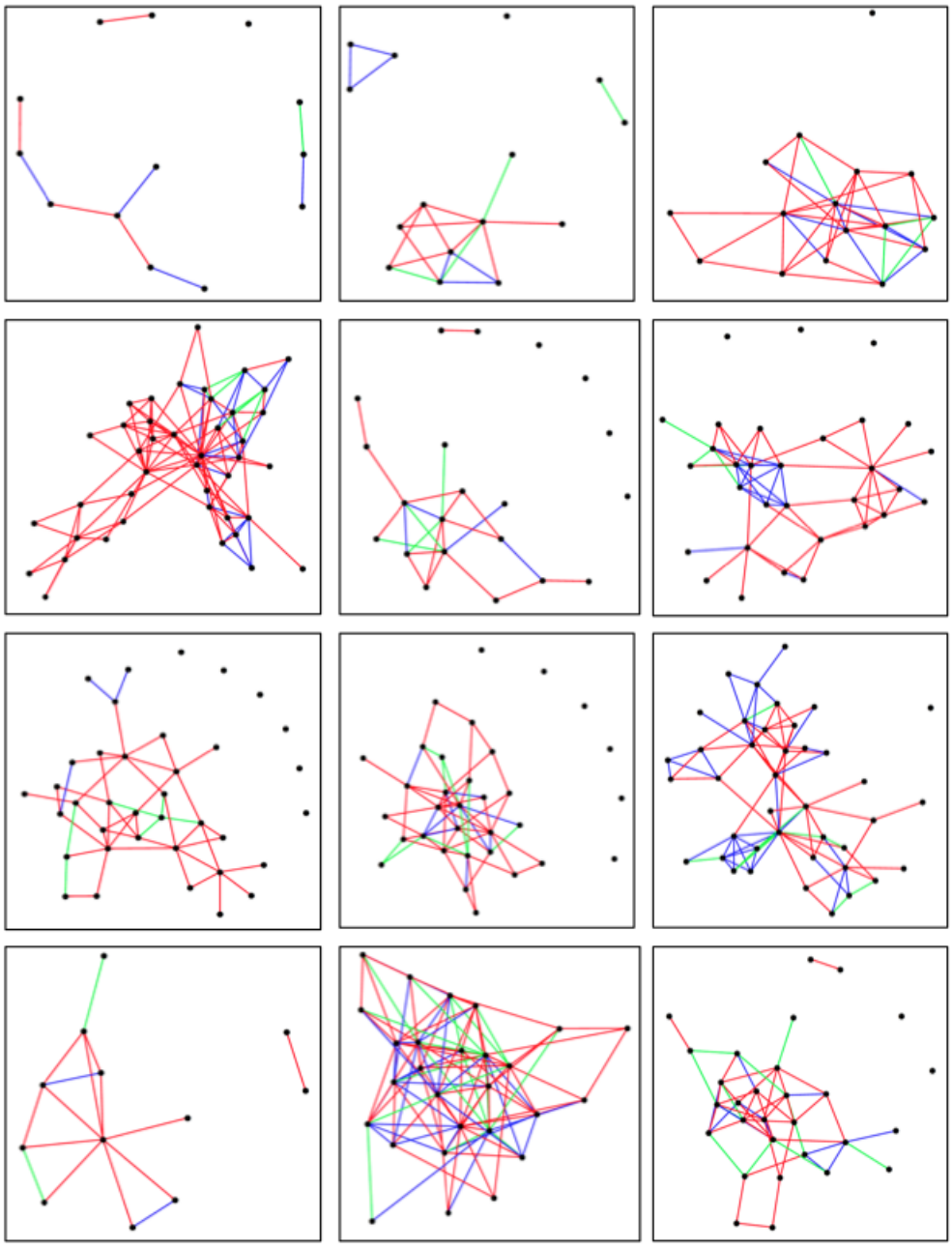
Web Appendix

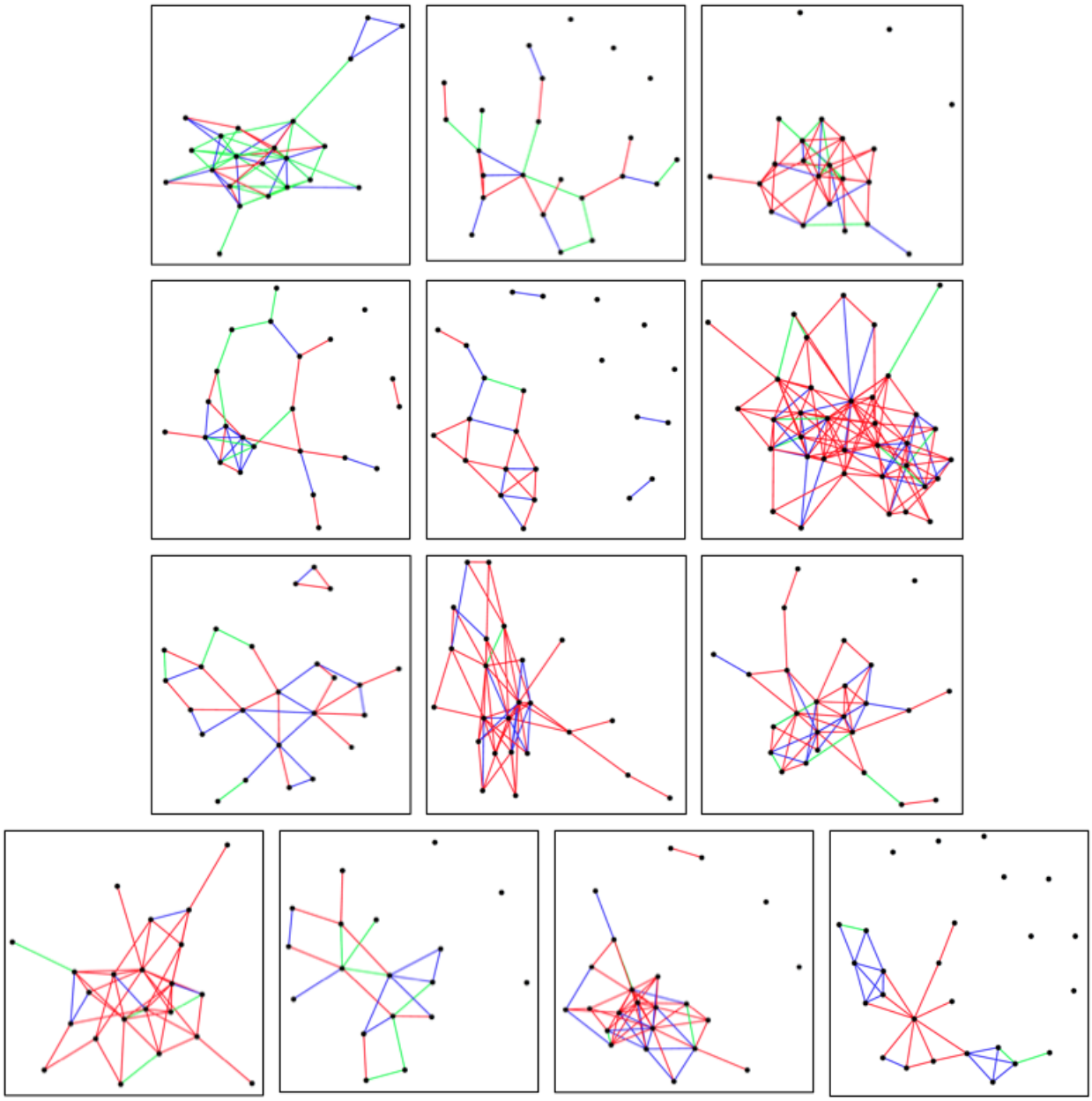
The Effect of Promoting Savings on Informal Risk-Sharing: Experimental Evidence from Vulnerable Women in Kenya; Felipe Dizon, Erick Gong, and Kelly Jones (Version: October 2018)

Figure A1: Risk-sharing Networks, Rural Clusters



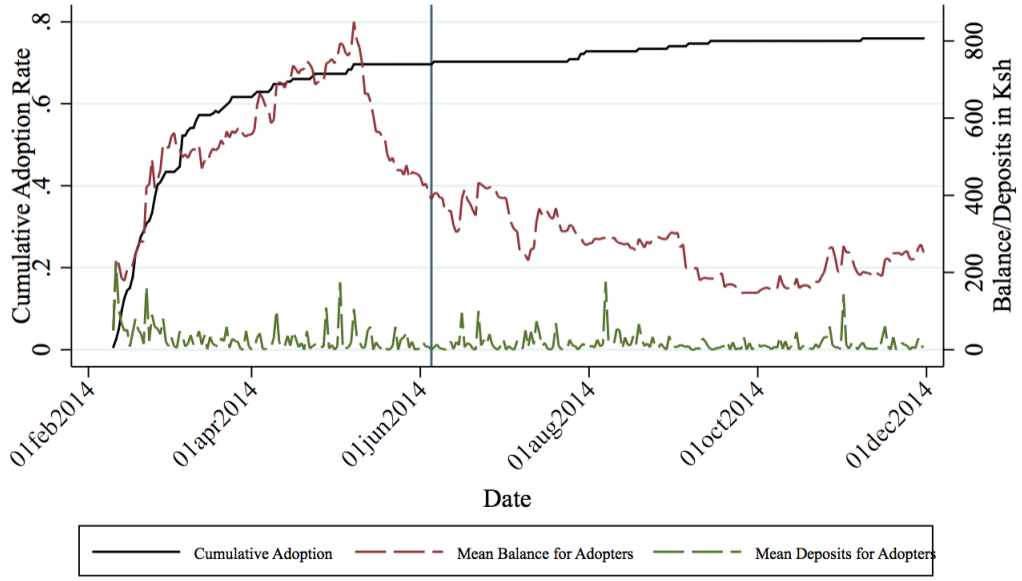
Notes: Each image depicts the 12 rural geographic cluster risk-sharing networks. A red edge indicates a dyad that was risk-sharing only at baseline, a green edge indicates a dyad that was risk-sharing only at endline, and a blue edge indicates a dyad that was risk-sharing at both baseline and endline.

Figure A2: Risk-sharing Networks, Urban Clusters



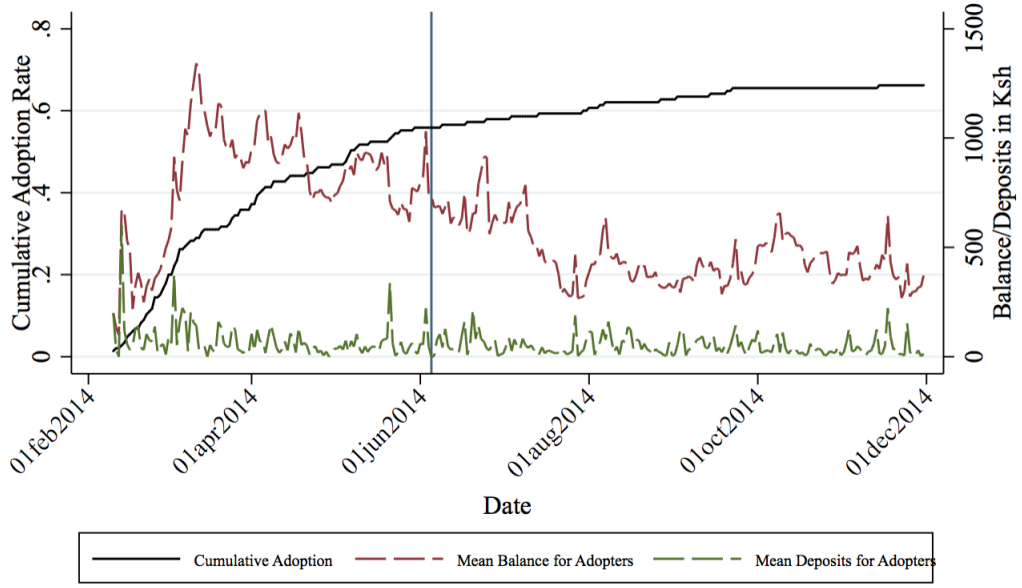
Notes: Each image depicts the 13 urban geographic cluster risk-sharing networks. A red edge indicates a dyad that was risk-sharing only at baseline, a green edge indicates a dyad that was risk-sharing only at endline, and a blue edge indicates a dyad that was risk-sharing at both baseline and endline.

Figure A3: Cumulative adoption rate and mean balance/deposits, rural



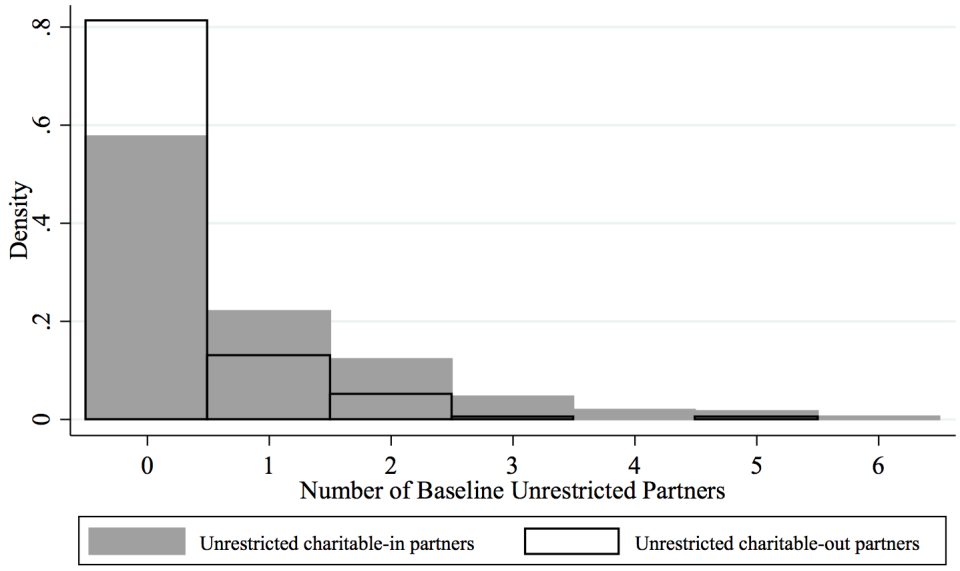
Notes: Using administrative safaricom records, we calculate the daily cumulative proportion of the treated sample that had used the new labeled account at least once since the beginning of treatment for all treated respondents. We define these individuals as adopters. We then create an individual by day dataset, where the balance for each day is the end of day balance for each individual. Then, for each day, we calculate the mean balance across all adopters, and the mean deposits across all adopters. The vertical solid line indicates the end of the intense intervention period.

Figure A4: Cumulative adoption rate and mean balance/deposits, urban



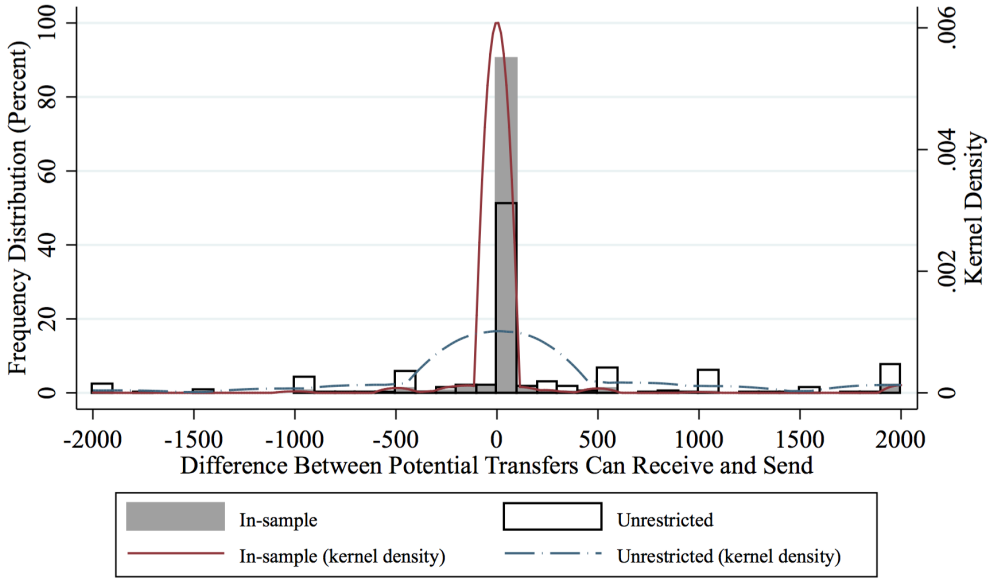
Notes: Using administrative safaricom records, we calculate the daily cumulative proportion of the treated sample that had used the new labeled account at least once since the beginning of treatment for all treated respondents. We define these individuals as adopters. We then create an individual by day dataset, where the balance for each day is the end of day balance for each individual. Then, for each day, we calculate the mean balance across all adopters, and the mean deposits across all adopters. The vertical solid line indicates the end of the intense intervention period.

Figure A5: Number of Baseline Financial Support Partners (Unrestricted Charitable)



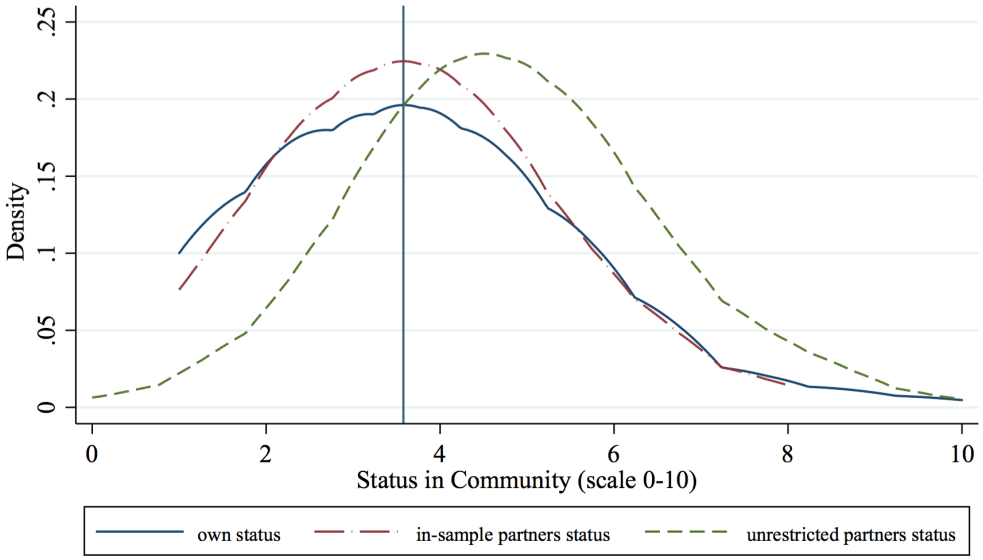
Notes: Each bin indicates the proportion of the sample with that number of reported financial support partners. A charitable-in partner is defined as a person for whom the respondent reported yes to the question (1) could you rely on this person for help if she needed money urgently to pay for an expense?, but no to the question (2) could this person rely on you for help if she needed money urgently to pay for an expense? A charitable-out partner is a person for whom the the respondent instead reported yes to question (2), but no to question (1).

Figure A6: Net Potential Transfers for Baseline Risk-Sharing Pairs



Notes: In-sample refers to in-sample baseline risk-sharing pairs, and unrestricted refers to unrestricted baseline risk-sharing pairs. The frequency distributions refer to a truncated frequency distribution of 100Ksh bin width. The variables are truncated so that any value below (above) -2000 (2000) is replaced with -2000 (2000). The kernel density functions use the same truncated variables. Epanechnikov kernel is used with bandwidth=50 for in-sample pairs and bandwidth=100 for unrestricted pairs.

Figure A7: Status in Community for Baseline Risk-Sharing Partners



Notes: Presented above are kernel density estimates of the status in community at baseline for in-sample and unrestricted partners. Status in community is a subjective measure on a 10-point scale from the survey question: Now think of a ladder in which people in your community are ranked, with the highest status people on the top rung and the lowest status people on the bottom rung. On a ladder with 10 steps, on which step would you place yourself? The measure for an unrestricted partner j is reported by i, whereas the measure for an in-sample partner j is reported by the partner j herself.

Table A1: Description of savings interventions

Intervention	Constraint	Description	Possible Effect Size (based on previous studies if we lack experimental variation)
Group Discussion	Knowledge / Information	A one hour group discussion on the importance of savings for both the control and treatment arms.	Fernandes et al. (2013) do a meta-analysis on 168 papers covering 201 studies and conclude that financial education has negligible effects on savings outcomes.
Setting Savings Goals	Self-Control (see Bryan et al. 2010)	One-on-one meetings with the treatment arm to elicit savings goals. These goals include both long-term investments (i.e. educational expenses) and emergency expenses (i.e. cost of an illness)	We are unaware of any studies in the development economics literature that test the effects of savings goals in isolation. To the best of our knowledge, most studies that involve savings goals link it to a savings accounts in order to meet the goal.
SMS text reminders	Inattention	Weekly SMS reminders were sent to the treatment arm about their savings goals for the first 12 weeks of the study.	Karlan et al. (2016) find that reminders increase savings balances by 6%. We are unable to reject the null of no effect of monthly SMS reminders on M-PESA savings outcomes within a sub-sample in our study (see Appendix Table A9).
Labeled M-PESA Account	Relieve Self-Control and Social Appropriation constraints via mental accounting.	A "Labeled" M-PESA account was provided to all women in the treatment arm. Women were strongly encouraged to only withdraw money from their labeled M-PESA account in the event of an emergency or when they reached their savings goal. There were no other restrictions on the labeled M-PESA account, and we thus see this account as a soft commitment device for savings	Dupas & Robinson (2013) find that their safe box which was labeled for preventive health investments lead to an increase of 66% in preventative health expenditures.
Zero Transaction Costs	Expense	All transaction fees were waved for the labeled M-PESA account for the first 12 weeks of the study.	Dupas et al. (2017) expand access to basic bank accounts in Uganda and Malawi by waiving all fees for the first two years. They find no ITT effects on savings.
5% Monthly Interest	Expense	Women in the 2nd treatment arm had their labeled M-PESA account subsidized with a 5% monthly interest rate for the first 12 weeks of the study.	See Appendix Table A8 to see the effects of the 2nd treatment vs. the 1st treatment arm.

References
Fernandes, D., Lynch Jr, J. G., & Netemeyer, R. G. (2014). Financial literacy, financial education, and downstream financial behaviors. *Management Science*, *60*(8), 1861-1883; Bryan, G., Karlan, D., & Nelson, S. (2010). Commitment devices. Annu. Rev. Econ., 2(1), 671-698.; Karlan, D., McConnell, M., Mullainathan, S., & Zinman, J. (2016). Getting to the top of mind: How reminders increase saving. Management Science, 62(12), 3393-3411.; Dupas, P., & Robinson, J. (2013). Why don't the poor save more? Evidence from health savings experiments. American Economic Review, 103(4), 1138-71.

Table A2: Effects of Treatment 1 and 2 on Savings

Panel A: M-PESA Administrative Data						
	Weekly Deposits			Weekly Balances		
	(1)	(2)	(3)	(4)	(5)	(6)
	Labeled M-PESA	Existing M-PESA	Total M-PESA	Labeled M-PESA	Existing M-PESA	Total M-PESA
Treat 1 X Post	112	45	236	25	244	510
	(87)	(209)	(228)	(83)	(304.94)	(324)
Treat 2 X Post		-155	-77		156	396*
		(175)	(174)		(204.56)	(209)
Post	79***	-22	-22	240***	-66	-66
	(23)	(128)	(128)	(51)	(193)	(193)
Observations	12,316	25,471	25,471	12,316	25,471	25,471
H_0: (Treat 1 X Post) = (Treat 2 X Post)						
p-value		0.33	0.16		0.72	0.68
Panel B: Self-Reported Savings Data						
	(1)	(2)	(3)	(4)		
	Other Mobile Savings	Home Savings	Bank Savings	Number ROSCAS		
Treat 1 X Post	-45	-184	416	-0.04		
	(64)	(373)	(995)	(0.12)		
Treat 2 X Post	-68	61	262	-0.06		
	(43)	(298)	(658)	(0.11)		
Number of observations	1,075	1,075	1,075	1,075		
H_0: (Treat 1 X Post) = (Treat 2 X Post)						
p-value	0.69	0.54	0.87	0.88		

Notes: Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study.

Table A3. Baseline variables for attritors and non-attritors

	Non-attritors		Attritors		t-test
	n	mean	n	mean	p-value
Household size	579	3.53	48	3.40	0.67
Are you currently pregnant?	579	0.043	48	0.062	0.53
How many children were born to you?	579	2.75	48	2.23	0.042
Are you the household head?	579	0.79	48	0.77	0.72
Single	579	0.26	48	0.40	0.035
Married	579	0.035	48	0.042	0.80
Widowed	579	0.38	48	0.25	0.081
Divorced or Separated	579	0.33	48	0.31	0.77
Years since husband has died	218	6.52	12	5.58	0.44
Proportion of children born still alive	553	0.93	45	0.92	0.64
Has more than primary education	579	0.37	48	0.54	0.023
Ethnicity: luo	579	0.91	48	0.94	0.48
Mother/father is head of the household	579	0.12	48	0.17	0.40
Average age of household members	544	14.1	45	16.6	0.076
Proportion of male household members	545	0.46	45	0.48	0.69
Has at least one HH member aged 5-17	579	0.82	48	0.81	0.87
Farm your own or your family's land	579	0.064	48	0.083	0.60
Farming as a renter or sharecropper	579	0.0035	48	0	0.68
Animal rearing or herding	579	0.0017	48	0	0.77
Farm wage labor	579	0.13	48	0.15	0.80
Selling produce (i.e. fruits, vegetables)	579	0.13	48	0.17	0.51
Selling prepared food (i.e. cooked) or drinks	579	0.11	48	0.062	0.30
Shop keeping or kiosk keeping	579	0.021	48	0.021	1.00
Other trading or selling	579	0.18	48	0.10	0.20
Vocation work such as carpentry, shoemaking or metalwork	579	0.0035	48	0	0.68
Tailoring or weaving (i.e. mat-making)	579	0.036	48	0	0.18
Other crafts work (i.e. soap-making)	579	0.016	48	0.042	0.19
Teacher or health worker	579	0.019	48	0.062	0.050
Factory work	579	0.0069	48	0	0.56
Domestic worker, servant or janitor	579	0.043	48	0.021	0.46
Office, clerical or administrative work	579	0.0035	48	0.021	0.094
Helping in a family business	579	0.0017	48	0	0.77
Waiter or restaurant worker (i.e. cook, restaurant server)	579	0.057	48	0.083	0.46
Sex work	579	0.42	48	0.46	0.64
Other work	579	0.15	48	0.15	0.88
No Activity	579	0.49	48	0.52	0.64
In the past 12 months, did you collect any wages?	579	0.59	48	0.71	0.12
In the past 12 months, did you receive any stipend?	579	0.041	48	0.083	0.18
In the past 12 months, did you operate a business?	579	0.14	48	0.15	0.91
In the past 12 months, did you ever sell any fresh food?f	579	0.25	48	0.19	0.32
In the past 12 months, did you ever sell fish or animal products?	579	0.14	48	0.12	0.77
In the past 12 months, did you ever sell prepared or processed foods?	579	0.15	48	0.17	0.81
In the past 12 months, did you ever receive money for any service?	579	0.12	48	0.17	0.34
In the past 12 months, did you ever do any other trading or selling?	579	0.12	48	0.19	0.18
Do you have any other source of income in the past 12 months?	579	0.092	48	0.12	0.45
Total hours work in a usual month	579	290.9	48	334.4	0.41
Total income in the past week	579	1675.2	48	1316.0	0.76
Amount invested in IGAs in the past 30 days	579	4369	48	6339.0	0.40
Owns dwelling	579	0.50	48	0.56	0.37
Walls made of grass, earth, or unburnt mud bricks	579	0.68	48	0.58	0.19

Floor made of earth, sand, mud or dung	579	0.49	48	0.48	0.86
Traditional toilet (mud floor) or no toilet facility	579	0.40	48	0.33	0.40
Wealth index (assets owned, factor analysis)	578	-0.000014	48	0.00017	1.00
Total resale value of livestock owned (kshs)	579	11124.8	48	12397.9	0.77
Total value of nonlivestock assets owned (kshs)	579	54182.0	48	46761.3	0.51
Owns radio	579	0.48	48	0.56	0.28
Owns TV	579	0.31	48	0.35	0.49
Owns bicycle	579	0.18	48	0.19	0.94
Owns cattle (local)	579	0.21	48	0.29	0.16
Owns chicken/s	578	0.51	48	0.44	0.33
Spending on temptation goods	579	399.9	48	504.6	0.40
School fees	578	3135.3	48	2108.3	0.55
Solar panels	579	3.80	48	0.021	0.69
Car battery	579	11.4	48	0	0.75
Wedding, party or social event	579	71.6	48	18.1	0.45
Funeral	579	425.3	48	385.8	0.85
Medicine	579	257.9	48	412.3	0.086
Health expenses (other than medicine)	579	226.6	48	60	0.31
Family planning	579	12.5	48	10	0.74
Home improvement	579	136.5	48	320.8	0.13
Household assets	578	183.4	48	141.2	0.68
Electronics	579	48.9	48	146.7	0.22
Time Pref: discount rate (present measure)	579	85.5	48	89.1	0.62
Time Pref: discount rate (future measure)	579	82.1	48	81.7	0.95
Check for understanding of time pref 1	579	0.11	48	0.15	0.51
Check for understanding of time pref 2	579	0.079	48	0.12	0.27
Time pref: time consistent preferences	579	0.56	48	0.50	0.39
Time pref: present-biased	579	0.26	48	0.35	0.14
Time pref: future-biased	579	0.18	48	0.15	0.58
Time Pref (framed): Standard Preferences (impatient)	579	0.49	48	0.58	0.23
Time Pref (framed): Standard Preferences (patient)	579	0.44	48	0.38	0.36
Time Pref (framed): Present-Biased	579	0.038	48	0.021	0.54
Time Pref (framed): Future-Biased	579	0.026	48	0.021	0.83
Are you setting aside any money for specific reasons?	579	0.40	48	0.40	0.97
Number of saving goals mentioned	579	0.77	48	0.79	0.91
Mention child education expenses as a savings goal	579	0.15	48	0.25	0.081
Savings: can't save because of lack of income	579	0.90	48	0.92	0.71
Savings: can't save because family/friends ask for money	579	0.085	48	0.17	0.058
Savings: can't save because of spending on temptation goods	579	0.19	48	0.19	0.97
Have you taken any loan	579	0.57	48	0.56	0.90
Credit: taken loan from family or friend	579	0.39	48	0.42	0.74
Credit: total amount borrowed in past 12 months	331	7241.9	27	6787.0	0.89
Credit: total outstanding amount of all loans	331	3486.2	27	2701.9	0.71
People can rely on: in your same town	579	1.56	48	2	0.021
People can rely on: in Kisumu county, but not close by?	579	0.59	48	0.50	0.59
People can rely on: outside Kisumu county, but not Nairobi	579	0.36	48	0.52	0.32
People can rely on: in Nairobi?	579	0.48	48	0.56	0.81
People can rely on: in Mombasa?	579	0.13	48	0.062	0.42
People can rely on: outside of Kenya?	579	0.078	48	0.021	0.53
Total number of people could rely on	579	3.19	48	3.67	0.45
At least one person could be relied on	579	0.93	48	0.98	0.21
People listed as could be relied on	579	2.41	48	3.02	0.016
Proportion of people could be relied on is male	540	0.36	47	0.35	0.90
Proportion of people listed as could be relied, sent money	540	0.58	47	0.64	0.30

All money received from others, past 3 months	579	3161.2	48	3789.5	0.68
Total amount received that is for shocks	579	1704.7	48	1409.3	0.78
At least one person sent money to	579	0.61	48	0.69	0.28
Number of people sent money to in past 3 months	579	0.80	48	0.88	0.50
Proportion of people sent money to is male	352	0.15	33	0.15	0.91
All money sent to others, past 3 months	579	1027.4	48	1715	0.088
Total amount sent that is for shocks	579	494.4	48	1414.6	0.0047
Number of other friends listed	579	0.98	48	1.27	0.20
Member/leader in at least one social/community group	579	0.75	48	0.81	0.36
Total number of groups a part of	579	1.70	48	1.85	0.58
Holds a leadership position in at least one social/community group	579	0.12	48	0.083	0.40
Most people are basically honest	579	2.00	48	2.12	0.46
Most people can be trusted	579	1.87	48	1.77	0.50
Most government officials can be trusted to do their job well	579	2.17	48	2.15	0.90
I feel I can trust my neighbors to look after my house	579	2.65	48	2.44	0.27
Total number in-sample network	579	6.10	48	4.35	0.010
Network: prop of people considered friend	564	0.59	47	0.60	0.87
Network: prop of people belonging to same church	564	0.19	47	0.23	0.31
Network: prop of people belonging to same ethnic group	564	0.86	47	0.91	0.19
Network: prop of people had conversation more than 5 min last 7 days	564	0.47	47	0.50	0.63
Network: prop of people whom trust for info on new product	564	0.53	47	0.54	0.78
Network: prop of people better info on new products than self	564	0.48	47	0.53	0.29
Network: num of people can rely on for support	579	2.55	48	1.54	0.011
Network: prop of people can rely on for support	564	0.46	47	0.44	0.75
Network: num of people would support	579	3.46	48	2.33	0.017
Network: prop of people would support	564	0.61	47	0.61	0.97
Network: num of mutual support connections	579	2.48	48	1.52	0.014
Network: prop of mutual support connections	564	0.45	47	0.44	0.85
Network: num of people could rely on (ranked, max=5)	579	1.95	48	1.79	0.53
Network: number of mismatches between friendship, mutual RSN	579	1.80	48	0.98	0.021
Network: number of mismatches between trusted info, mutual RSN	579	1.06	48	0.85	0.31
Network: number of mismatches between superior info, mutual RSN	579	1.69	48	1.29	0.19
HFIAS Score (range 0-27)	579	11.6	48	11.2	0.69
Food Secure	579	0.081	48	0.12	0.29
Mildly Food Access Insecure	579	0.033	48	0.021	0.65
Moderately Food Access Insecure	579	0.22	48	0.21	0.84
Severely Food Access Insecure	579	0.66	48	0.65	0.79
Food: Anxiety and uncertainty in last 4 weeks	579	0.77	48	0.75	0.81
Food: Insufficient quality of food in last 4 weeks	579	0.91	48	0.85	0.20
Food: Insufficient food intake	579	0.85	48	0.83	0.71
Status in community (10-point scale)	579	3.58	48	3.60	0.92
Where on ladder households stand at present?	579	3.69	48	3.54	0.57
Where on ladder household will stand one year from now?	575	5.30	47	5.28	0.94
Where on ladder household will stand five years from now?	573	6.90	47	7.02	0.73
Locus of control additive score (0-24: most control)	579	15.1	48	15.8	0.13
Self-esteem additive score (0-24: highest self esteem)	579	12.3	48	13.5	0.049
Numeracy: first 5 questions all correct	579	0.38	48	0.35	0.76
Numeracy: additive score for hard questions (scale: 0-11)	218	5.11	17	5.41	0.63
Numeracy: total additive score (weighted questions 6-16)	579	4.67	48	4.85	0.50
Degree of Anxiety Disorder: using GAD-7 scale	579	0.77	48	0.71	0.61
GAD: Mild Anxiety	579	0.42	48	0.46	0.59
GAD: Moderate Anxiety	579	0.43	48	0.40	0.66
GAD: Moderate-Severe Anxiety	579	0.12	48	0.12	0.93
GAD: Severe Anxiety	579	0.033	48	0.021	0.65

Was anxiety related to female cycle?	59	0.31	2	0.50	0.57
Out of 100 people in comm, how many guess have HIV/AIDS?	560	50.8	48	48.2	0.59
What are the chances you currently have the HIV virus?	579	4.18	48	3.04	0.084

Table A4. Baseline variables for attritors: by treatment status

	Control		Treatment		t-test
	n	mean	n	mean	p-value
Household size	25	3.76	23	3	0.20
Are you currently pregnant?	25	0.080	23	0.043	0.61
How many children were born to you?	25	2.48	23	1.96	0.26
Are you the household head?	25	0.84	23	0.70	0.24
Single	25	0.32	23	0.48	0.27
Married	25	0.080	23	0	0.17
Widowed	25	0.32	23	0.17	0.25
Divorced or Separated	25	0.28	23	0.35	0.62
Years since husband has died	8	4.75	4	7.25	0.11
Proportion of children born that are still alive	23	0.93	22	0.91	0.72
Has more than primary education	25	0.56	23	0.52	0.80
Ethnicity: luo	25	0.96	23	0.91	0.51
Mother/father is head of the household	25	0.080	23	0.26	0.097
Average age of household members	24	14.3	21	19.1	0.12
Proportion of male household members	24	0.51	21	0.45	0.53
Has at least one HH member aged 5-17	25	0.84	23	0.78	0.62
Farm your own or your family's land	25	0.080	23	0.087	0.93
Farming as a renter or sharecropper	25	0	23	0	.
Animal rearing or herding	25	0	23	0	.
Farm wage labor	25	0.20	23	0.087	0.28
Selling produce (i.e. fruits, vegetables)	25	0.20	23	0.13	0.53
Selling prepared food (i.e. cooked) or drinks	25	0.080	23	0.043	0.61
Shop keeping or kiosk keeping	25	0.040	23	0	0.34
Other trading or selling	25	0.16	23	0.043	0.19
Vocation work such as carpentry, shoemaking or metalwork	25	0	23	0	.
Tailoring or weaving (i.e. mat-making)	25	0	23	0	.
Other crafts work (i.e. soap-making)	25	0.040	23	0.043	0.95
Teacher or health worker	25	0.040	23	0.087	0.51
Factory work	25	0	23	0	.
Domestic worker, servant or janitor	25	0	23	0.043	0.30
Office, clerical or administrative work	25	0.040	23	0	0.34
Helping in a family business	25	0	23	0	.
Waiter or restaurant worker (i.e. cook, restaurant server)	25	0.040	23	0.13	0.27
Sex work	25	0.44	23	0.48	0.80
Other	25	0.16	23	0.13	0.78
No Activity	25	0.44	23	0.61	0.25
In the past 12 months, did you collect any wages?	25	0.68	23	0.74	0.66
In the past 12 months, did you receive any stipend?	25	0.040	23	0.13	0.27
In the past 12 months, did you operate a business?	25	0.12	23	0.17	0.61
In the past 12 months, did you ever sell any fresh food?	25	0.20	23	0.17	0.82
In the past 12 months, did you ever sell fish or animal products?	25	0.12	23	0.13	0.92
In the past 12 months, did you ever sell prepared or processed foods?	25	0.20	23	0.13	0.53
In the past 12 months, did you ever receive money for any service?	25	0.12	23	0.22	0.38
In the past 12 months, did you ever do any other trading or selling?	25	0.24	23	0.13	0.34
Do you have any other source of income in the past 12 months?	25	0.080	23	0.17	0.34
Total hours work in a usual month	25	239.8	23	437.2	0.099
Total income in the past week	25	1858.4	23	726.5	0.41
Amount invested in IGAs in the past 30 days	25	9410.8	23	3000.2	0.36
Owns dwelling	25	0.52	23	0.61	0.55
Walls made of grass, earth, or unburnt mud bricks	25	0.60	23	0.57	0.81

Floor made of earth, sand, mud or dung	25	0.48	23	0.48	0.99
Traditional toilet (mud floor) or no toilet facility	25	0.36	23	0.30	0.69
Wealth index (assets owned, factor analysis)	25	0.0026	23	-0.0025	0.98
Total resale value of livestock owned (kshs)	25	15142	23	9415.2	0.40
Total value of nonlivestock assets owned (kshs)	25	49322.9	23	43976.9	0.62
Owns radio	25	0.48	23	0.65	0.24
Owns TV	25	0.36	23	0.35	0.93
Owns bicycle	25	0.20	23	0.17	0.82
Owns cattle (local)	25	0.28	23	0.30	0.86
Owns chicken/s	25	0.48	23	0.39	0.55
Spending on temptation goods	25	312.4	23	713.5	0.37
School fees	25	1768.4	23	2477.8	0.65
Solar panels	25	0.040	23	0	0.34
Car battery	25	0	23	0	.
Wedding, party or social event	25	0	23	37.8	0.30
Funeral	25	504.8	23	256.5	0.36
Medicine	25	560.4	23	251.3	0.25
Health expenses (other than medicine)	25	67.2	23	52.2	0.74
Family planning	25	5.60	23	14.8	0.43
Home improvement	25	470	23	158.7	0.27
Household assets	25	43.2	23	247.8	0.16
Electronics	25	0	23	306.1	0.30
Time Pref: discount rate (present measure)	25	81.2	23	97.6	0.21
Time Pref: discount rate (future measure)	25	79.2	23	84.3	0.71
Check for understanding of time pref 1	25	0.16	23	0.13	0.78
Check for understanding of time pref 2	25	0.16	23	0.087	0.46
Time pref: time consistent preferences	25	0.48	23	0.52	0.78
Time pref: present-biased	25	0.32	23	0.39	0.61
Time pref: future-biased	25	0.20	23	0.087	0.28
Time Pref (framed): Standard Preferences (impatient)	25	0.64	23	0.52	0.42
Time Pref (framed): Standard Preferences (patient)	25	0.28	23	0.48	0.16
Time Pref (framed): Present-Biased	25	0.040	23	0	0.34
Time Pref (framed): Future-Biased	25	0.040	23	0	0.34
Are you setting aside any money for specific reasons?	25	0.48	23	0.30	0.22
Number of saving goals mentioned	25	1	23	0.57	0.28
Mention child education expenses as a savings goal	25	0.32	23	0.17	0.25
Savings: can't save because of lack of income	25	0.88	23	0.96	0.35
Savings: can't save because family/friends ask for money	25	0.080	23	0.26	0.097
Savings: can't save because of spending on temptation goods	25	0.20	23	0.17	0.82
Have you taken any loan	25	0.48	23	0.65	0.24
Credit: taken loan from family or friend	25	0.40	23	0.43	0.81
Credit: total amount borrowed in past 12 months	12	5458.3	15	7850	0.60
Credit: total outstanding amount of all loans	12	2825	15	2603.3	0.90
People can rely on: in your same town	25	2.40	23	1.57	0.092
People can rely on: in Kisumu county, but not close by	25	0.64	23	0.35	0.40
People can rely on: outside Kisumu county, but not Nairobi	25	0.60	23	0.43	0.52
People can rely on: in Nairobi	25	0.60	23	0.52	0.86
People can rely on: in Mombasa	25	0.040	23	0.087	0.51
People can rely on: outside of Kenya	25	0.040	23	0	0.34
Total number of people could rely on	25	4.32	23	2.96	0.17
At least one person could be relied on	25	1	23	0.96	0.30
People listed as could be relied on	25	3.20	23	2.83	0.46
Proportion of people could be relied on is male	25	0.30	22	0.41	0.28
Proportion of people listed as could be relied, sent money	25	0.63	22	0.65	0.82

All money received from others, past 3 months	25	2334.6	23	5370.9	0.11
Total amount received that is for shocks	25	1084.6	23	1762.2	0.35
At least one person sent money to	25	0.72	23	0.65	0.62
Number of people sent money to in past 3 months	25	0.96	23	0.78	0.43
Proportion of people sent money to is male	18	0.10	15	0.20	0.38
All money sent to others, past 3 months	25	1744	23	1683.5	0.96
Total amount sent that is for shocks	25	1348	23	1487.0	0.92
Number of other friends listed	25	1.44	23	1.09	0.48
Member/leader in at least one social/community group	25	0.88	23	0.74	0.22
Total number of groups a part of	25	1.72	23	2	0.64
Holds a leadership position in at least one social/community group	25	0.080	23	0.087	0.93
Most people are basically honest	25	1.76	23	2.52	0.013
Most people can be trusted	25	1.44	23	2.13	0.012
Most government officials can be trusted to do their job well	25	2.04	23	2.26	0.47
I feel I can trust my neighbors to look after my house	25	2.16	23	2.74	0.095
Total number in-sample network	25	4.24	23	4.48	0.80
Network: prop of people considered friend	25	0.50	22	0.70	0.055
Network: prop of people belonging to same church	25	0.28	22	0.17	0.27
Network: prop of people belonging to same ethnic group	25	0.96	22	0.86	0.11
Network: prop of people had conversation more than 5 min last 7 days	25	0.48	22	0.52	0.68
Network: prop of people whom trust for info on new product	25	0.56	22	0.52	0.75
Network: prop of people who have better info on new products than self	25	0.60	22	0.46	0.21
Network: num of people can rely on for support	25	1.20	23	1.91	0.12
Network: prop of people can rely on for support	25	0.42	22	0.46	0.73
Network: num of people would support	25	2.08	23	2.61	0.42
Network: prop of people would support	25	0.62	22	0.60	0.91
Network: num of mutual support connections	25	1.20	23	1.87	0.14
Network: prop of mutual support connections	25	0.42	22	0.46	0.76
Network: num of people could rely on (ranked, max=5)	25	1.76	23	1.83	0.91
Network: number of mismatches between friendship, mutual RSN	25	0.84	23	1.13	0.29
Network: number of mismatches between trusted info, mutual RSN	25	0.88	23	0.83	0.86
Network: number of mismatches between superior info, mutual RSN	25	1.44	23	1.13	0.47
HFIAS Score (range 0-27)	25	11.2	23	11.1	0.97
Food Secure	25	0.080	23	0.17	0.34
Mildly Food Access Insecure	25	0.040	23	0	0.34
Moderately Food Access Insecure	25	0.20	23	0.22	0.89
Severely Food Access Insecure	25	0.68	23	0.61	0.61
Food: Anxiety and uncertainty in last 4 weeks	25	0.76	23	0.74	0.87
Food: Insufficient quality of food in last 4 weeks	25	0.88	23	0.83	0.61
Food: Insufficient food intake	25	0.88	23	0.78	0.38
Status in community (10-point scale)	25	3.52	23	3.70	0.76
Where on ladder households stand at present?	25	3.76	23	3.30	0.46
Where on ladder household will stand one year from now?	25	5.60	22	4.91	0.33
Where on ladder household will stand five years from now?	25	7.20	22	6.82	0.58
Locus of control additive score (0-24: most control)	25	15.8	23	15.7	0.98
Self-esteem additive score (0-24: highest self esteem)	25	12.6	23	14.5	0.072
Numeracy: first 5 questions all correct	25	0.32	23	0.39	0.61
Numeracy: additive score for hard questions (scale: 0-11)	8	5.62	9	5.22	0.75
Numeracy: total additive score (weighted questions 6-16)	25	4.84	23	4.86	0.97
Degree of Anxiety Disorder: using GAD-7 scale	25	0.76	23	0.65	0.63
GAD: Mild Anxiety	25	0.44	23	0.48	0.80
GAD: Moderate Anxiety	25	0.40	23	0.39	0.95
GAD: Moderate-Severe Anxiety	25	0.12	23	0.13	0.92
GAD: Severe Anxiety	25	0.040	23	0	0.34

Was anxiety related to female cycle?	1	1	1	0	.
Out of 100 people in comm, how many guess have HIV/AIDS?	25	45.4	23	51.3	0.51
What are the chances you currently have the HIV virus?	25	3	23	3.09	0.94

Table A5. Baseline variables by treatment status

	Control		Treatment		t-test
	n	mean	n	mean	p-value
Household size	323	3.55	304	3.49	0.69
Are you currently pregnant?	323	0.046	304	0.043	0.82
How many children were born to you?	323	2.72	304	2.69	0.82
Are you the household head?	323	0.80	304	0.78	0.63
Single	323	0.28	304	0.26	0.59
Married	323	0.046	304	0.023	0.11
Widowed	323	0.38	304	0.35	0.36
Divorced or Separated	323	0.29	304	0.37	0.039
Years since husband has died	124	6.39	106	6.56	0.75
Proportion of children still alive	306	0.93	292	0.94	0.41
Has more than primary education	323	0.40	304	0.37	0.43
Ethnicity: luo	323	0.89	304	0.92	0.20
Mother/father is head of the household	323	0.11	304	0.14	0.31
Average age of household members	300	13.7	289	14.9	0.11
Proportion of male household members	301	0.48	289	0.44	0.095
Has at least one HH member aged 5-17	323	0.82	304	0.83	0.79
Farm your own or your family's land	323	0.062	304	0.069	0.72
Farming as a renter or sharecropper	323	0	304	0.0066	0.14
Animal rearing or herding	323	0.0031	304	0	0.33
Farm wage labor	323	0.14	304	0.13	0.69
Selling produce (i.e. fruits, vegetables)	323	0.15	304	0.12	0.33
Selling prepared food (i.e. cooked) or drinks	323	0.093	304	0.12	0.24
Shop keeping or kiosk keeping	323	0.025	304	0.016	0.47
Other trading or selling	323	0.19	304	0.15	0.30
Vocation work such as carpentry, shoemaking or metalwork	323	0.0062	304	0	0.17
Tailoring or weaving (i.e. mat-making)	323	0.025	304	0.043	0.21
Other crafts work (i.e. soap-making)	323	0.022	304	0.013	0.42
Teacher or health worker	323	0.019	304	0.026	0.51
Factory work	323	0.0031	304	0.0099	0.29
Domestic worker, servant or janitor	323	0.043	304	0.039	0.81
Office, clerical or administrative work	323	0.0062	304	0.0033	0.60
Helping in a family business	323	0.0031	304	0	0.33
Waiter or restaurant worker (i.e. cook, restaurant server)	323	0.050	304	0.069	0.30
Sex work	323	0.44	304	0.41	0.58
Other work	323	0.15	304	0.15	0.90
No Activity	323	0.47	304	0.50	0.46
In the past 12 months, did you collect any wages?	323	0.57	304	0.63	0.096
In the past 12 months, did you receive any stipend?	323	0.053	304	0.036	0.32
In the past 12 months, did you operate a business?	323	0.16	304	0.12	0.19
In the past 12 months, did you ever sell any fresh food?	323	0.25	304	0.24	0.83
In the past 12 months, did you ever sell fish or animal products?	323	0.14	304	0.14	0.97
In the past 12 months, did you ever sell prepared or processed foods?	323	0.15	304	0.16	0.83
In the past 12 months, did you ever receive money for any service?	323	0.11	304	0.13	0.52
In the past 12 months, did you ever do any other trading or selling?	323	0.14	304	0.12	0.43
Do you have any other source of income in the past 12 months?	323	0.11	304	0.072	0.071
Total hours work in a usual month	323	288.9	304	299.9	0.70
Total income in the past week	323	2122.5	304	1143.3	0.12
Amount invested in IGAs in the past 30 days	323	4832.7	304	4187.3	0.60
Owns dwelling	323	0.50	304	0.50	0.97
Walls made of grass, earth, or unburnt mud bricks	323	0.66	304	0.68	0.46

Floor made of earth, sand, mud or dung	323	0.49	304	0.49	0.96
Traditional toilet (mud floor) or no toilet facility	323	0.39	304	0.39	0.84
Wealth index (assets owned, factor analysis)	322	0.0035	304	-0.0037	0.92
Total resale value of livestock owned (kshs)	323	12973.3	304	9361.7	0.11
Total value of nonlivestock assets owned (kshs)	323	50334.9	304	57097.9	0.25
Owns radio	323	0.48	304	0.50	0.67
Owns TV	323	0.32	304	0.30	0.72
Owns bicycle	323	0.18	304	0.18	0.96
Owns cattle (local)	323	0.21	304	0.21	0.92
Owns chicken/s	322	0.53	304	0.48	0.23
Spending on temptation goods	323	405.9	304	410.0	0.95
School fees	322	2640.7	304	3497.2	0.34
Solar panels	323	0.0031	304	7.24	0.16
Car battery	323	20.4	304	0	0.29
Wedding, party or social event	323	22.1	304	115.7	0.012
Funeral	323	498.2	304	341.6	0.15
Medicine	323	264.1	304	275.6	0.81
Health expenses (other than medicine)	323	290.2	304	132.7	0.070
Family planning	323	14.1	304	10.5	0.37
Home improvement	323	201.4	304	96.6	0.11
Household assets	322	183.1	304	177.0	0.91
Electronics	323	60.6	304	51.9	0.84
Time Pref: discount rate (present measure)	323	87.8	304	83.7	0.28
Time Pref: discount rate (future measure)	323	82.0	304	82.2	0.96
Check for understanding of time pref 1	323	0.11	304	0.13	0.37
Check for understanding of time pref 2	323	0.080	304	0.086	0.82
Time pref: time consistent preferences	323	0.53	304	0.59	0.11
Time pref: present-biased	323	0.29	304	0.23	0.086
Time pref: future-biased	323	0.18	304	0.17	0.94
Time Pref (framed): Standard Preferences (impatient)	323	0.53	304	0.46	0.086
Time Pref (framed): Standard Preferences (patient)	323	0.40	304	0.48	0.060
Time Pref (framed): Present-Biased	323	0.037	304	0.036	0.95
Time Pref (framed): Future-Biased	323	0.028	304	0.023	0.70
Are you setting aside any money for specific reasons?	323	0.41	304	0.39	0.60
Number of saving goals mentioned	323	0.78	304	0.76	0.80
Mention child education expenses as a savings goal	323	0.16	304	0.16	0.82
Savings: can't save because of lack of income	323	0.90	304	0.90	0.80
Savings: can't save because family/friends ask for money	323	0.090	304	0.092	0.92
Savings: can't save because of spending on temptation goods	323	0.21	304	0.17	0.25
Have you taken any loan	323	0.56	304	0.58	0.58
Credit: taken loan from family or friend	323	0.40	304	0.39	0.90
Credit: total amount borrowed in past 12 months	181	7334.0	177	7078.2	0.88
Credit: total outstanding amount of all loans	181	3300.4	177	3556.5	0.82
People can rely on: in your same town	323	1.60	304	1.58	0.86
People can rely on: in Kisumu county, but not close by?	323	0.63	304	0.53	0.22
People can rely on: outside Kisumu county, but not Nairobi	323	0.43	304	0.31	0.17
People can rely on: in Nairobi?	323	0.61	304	0.37	0.16
People can rely on: in Mombasa?	323	0.13	304	0.12	0.84
People can rely on: outside of Kenya?	323	0.099	304	0.046	0.27
Total number of people could rely on	323	3.50	304	2.94	0.10
At least one person could be relied on	323	0.93	304	0.94	0.43
People listed as could be relied on	323	2.52	304	2.39	0.35
Proportion of people could be relied on is male	300	0.35	287	0.36	0.69
Proportion of people could be relied on, sent money	300	0.56	287	0.61	0.14

All money received from others, past 3 months	323	3193.2	304	3226.5	0.97
Total amount received that is for shocks	323	1624.6	304	1743.3	0.83
At least one person sent money to	323	0.62	304	0.61	0.91
Number of people sent money to in past 3 months	323	0.77	304	0.83	0.35
Proportion of people sent money to is male	199	0.17	186	0.14	0.36
All money sent to others, past 3 months	323	1004.5	304	1160.3	0.47
Total amount sent that is for shocks	323	565.0	304	564.7	1.00
Number of other friends listed	323	1.02	304	0.99	0.83
Member/leader in at least one social/community group	323	0.79	304	0.72	0.055
Total number of groups a part of	323	1.81	304	1.62	0.17
Holds a leadership position in at least one social/community group	323	0.11	304	0.13	0.44
Most people are basically honest	323	2.01	304	2.02	0.88
Most people can be trusted	323	1.83	304	1.90	0.36
Most government officials can be trusted to do their job well	323	2.14	304	2.20	0.50
I feel I can trust my neighbors to look after my house	323	2.61	304	2.65	0.66
Total number in-sample network	323	5.84	304	6.11	0.46
Network: prop of people considered friend	316	0.57	295	0.60	0.30
Network: prop of people belonging to same church	316	0.20	295	0.18	0.30
Network: prop of people belonging to same ethnic group	316	0.86	295	0.86	0.80
Network: prop of people had conversation more than 5 min last 7 days	316	0.47	295	0.48	0.68
Network: prop of people whom trust for info on new product	316	0.52	295	0.53	0.79
Network: prop of people better info on new products than self	316	0.49	295	0.48	0.61
Network: num of people can rely on for support	323	2.32	304	2.63	0.15
Network: prop of people can rely on for support	316	0.45	295	0.47	0.64
Network: num of people would support	323	3.20	304	3.56	0.16
Network: prop of people would support	316	0.61	295	0.61	0.91
Network: num of mutual support connections	323	2.27	304	2.56	0.17
Network: prop of mutual support connections	316	0.45	295	0.46	0.72
Network: num of people could rely on (ranked, max=5)	323	1.90	304	1.98	0.54
Network: number of mismatches between friendship, mutual RSN	323	1.63	304	1.84	0.27
Network: number of mismatches between trusted info, mutual RSN	323	1.10	304	0.99	0.31
Network: number of mismatches between superior info, mutual RSN	323	1.64	304	1.67	0.87
HFIAS Score (range 0-27)	323	11.5	304	11.6	0.83
Food Secure	323	0.099	304	0.069	0.18
Mildly Food Access Insecure	323	0.031	304	0.033	0.89
Moderately Food Access Insecure	323	0.20	304	0.24	0.24
everely Food Access Insecure	323	0.67	304	0.66	0.77
Food: Anxiety and uncertainty in last 4 weeks	323	0.76	304	0.77	0.89
Food: Insufficient quality of food in last 4 weeks	323	0.89	304	0.92	0.13
Food: Insufficient food intake	323	0.84	304	0.86	0.49
Status in community (10-point scale)	323	3.60	304	3.56	0.75
Where on ladder households stand at present?	323	3.72	304	3.63	0.53
Where on ladder household will stand one year from now?	319	5.27	303	5.33	0.71
Where on ladder household will stand five years from now?	318	6.92	302	6.91	0.98
Locus of control additive score (0-24: most control)	323	15.0	304	15.4	0.12
Self-esteem additive score (0-24: highest self esteem)	323	12.6	304	12.3	0.38
Numeracy: first 5 questions all correct	323	0.39	304	0.36	0.33
Numeracy: additive score for hard questions (scale: 0-11)	127	5.27	108	4.98	0.38
Numeracy: total additive score (weighted questions 6-16)	323	4.77	304	4.59	0.19
Degree of Anxiety Disorder: using GAD-7 scale	323	0.79	304	0.73	0.35
GAD: Mild Anxiety	323	0.43	304	0.41	0.75
GAD: Moderate Anxiety	323	0.40	304	0.45	0.17
GAD: Moderate-Severe Anxiety	323	0.13	304	0.12	0.65
GAD: Severe Anxiety	323	0.046	304	0.016	0.033

Was anxiety related to female cycle?	33	0.30	28	0.32	0.88
Out of 100 people in comm, how many guess have HIV/AIDS?	315	50.7	293	50.4	0.88
What are the chances you currently have the HIV virus?	323	4.32	304	3.85	0.18

Table A6. Baseline variables for non-attritors: by treatment status

	Control		Treatment		t-test
	n	mean	n	mean	p-value
Household siz	298	3.54	281	3.53	0.95
Are you currently pregnant?	298	0.044	281	0.043	0.96
How many children were born to you?	298	2.74	281	2.75	0.95
Are you the household head?	298	0.80	281	0.79	0.88
Single	298	0.27	281	0.24	0.36
Married	298	0.044	281	0.025	0.22
Widowed	298	0.39	281	0.36	0.52
Divorced or Separated	298	0.30	281	0.37	0.046
Years since husband has died	116	6.50	102	6.54	0.95
Proportion of children born that are still alive	283	0.93	270	0.94	0.32
Has more than primary education	298	0.39	281	0.36	0.46
Ethnicity: luo	298	0.89	281	0.93	0.14
Mother/father is head of the household	298	0.12	281	0.13	0.60
Average age of household members	276	13.6	268	14.5	0.23
Proportion of male household members	277	0.48	268	0.44	0.12
Has at least one HH member aged 5-17	298	0.82	281	0.83	0.67
Farm your own or your family's land	298	0.060	281	0.068	0.72
Farming as a renter or sharecropper	298	0	281	0.0071	0.15
Animal rearing or herding	298	0.0034	281	0	0.33
Farm wage labor	298	0.13	281	0.13	0.93
Selling produce (i.e. fruits, vegetables)	298	0.14	281	0.12	0.41
Selling prepared food (i.e. cooked) or drinks	298	0.094	281	0.13	0.19
Shop keeping or kiosk keeping	298	0.023	281	0.018	0.63
Other trading or selling	298	0.19	281	0.16	0.45
Vocation work such as carpentry, shoemaking or metalwork	298	0.0067	281	0	0.17
Tailoring or weaving (i.e. mat-making)	298	0.027	281	0.046	0.21
Other crafts work (i.e. soap-making)	298	0.020	281	0.011	0.36
Teacher or health worker	298	0.017	281	0.021	0.69
Factory work	298	0.0034	281	0.011	0.29
Domestic worker, servant or janitor	298	0.047	281	0.039	0.64
Office, clerical or administrative work	298	0.0034	281	0.0036	0.97
Helping in a family business	298	0.0034	281	0	0.33
Waiter or restaurant worker (i.e. cook, restaurant server)	298	0.050	281	0.064	0.48
Sex work	298	0.44	281	0.41	0.51
Other	298	0.15	281	0.15	0.96
No Activity	298	0.48	281	0.49	0.66
In the past 12 months, did you collect any wages?	298	0.56	281	0.63	0.11
In the past 12 months, did you receive any stipend?	298	0.054	281	0.028	0.13
In the past 12 months, did you operate a business?	298	0.16	281	0.12	0.13
In the past 12 months, did you ever sell any fresh food?	298	0.26	281	0.25	0.87
In the past 12 months, did you ever sell fish or animal products?	298	0.14	281	0.14	0.94
In the past 12 months, did you ever sell prepared or processed foods?	298	0.15	281	0.16	0.68
In the past 12 months, did you ever receive money for any service?	298	0.11	281	0.12	0.70
In the past 12 months, did you ever do any other trading or selling?	298	0.13	281	0.11	0.62
Do you have any other source of income in the past 12 months?	298	0.12	281	0.064	0.026
Total hours work in a usual month	298	293.1	281	288.6	0.88
Total income in the past week	298	2144.7	281	1177.4	0.15
Amount invested in IGAs in the past 30 days	298	4448.7	281	4284.5	0.89
Owns dwelling	298	0.50	281	0.49	0.83
Walls made of grass, earth, or unburnt mud bricks	298	0.66	281	0.69	0.40

Floor made of earth, sand, mud or dung	298	0.49	281	0.49	0.96
Traditional toilet (mud floor) or no toilet facility	298	0.39	281	0.40	0.75
Wealth index (assets owned, factor analysis)	297	0.0036	281	-0.0038	0.92
Total resale value of livestock owned (kshs)	298	12791.4	281	9357.3	0.15
Total value of nonlivestock assets owned (kshs)	298	50419.8	281	58171.9	0.22
Owns radio	298	0.48	281	0.48	0.92
Owns TV	298	0.31	281	0.30	0.73
Owns bicycle	298	0.18	281	0.19	0.91
Owns cattle (local)	298	0.21	281	0.20	0.88
Owns chicken/s	297	0.53	281	0.49	0.29
Spending on temptation goods	298	413.8	281	385.2	0.65
School fees	297	2714.1	281	3580.6	0.37
Solar panels	298	0	281	7.83	0.16
Car battery	298	22.1	281	0	0.29
Wedding, party or social event	298	24.0	281	122.1	0.015
Funeral	298	497.7	281	348.5	0.19
Medicine	298	239.2	281	277.6	0.41
Health expenses (other than medicine)	298	308.9	281	139.3	0.071
Family planning	298	14.8	281	10.1	0.27
Home improvement	298	178.9	281	91.6	0.19
Household assets	297	194.9	281	171.2	0.68
Electronics (i.e. mobile phones, computers, tvs, radios and the like)	298	65.6	281	31.1	0.37
Time Pref: discount rate (present measure)	298	88.4	281	82.5	0.14
Time Pref: discount rate (future measure)	298	82.2	281	82.0	0.96
Check for understanding of time pref 1	298	0.10	281	0.13	0.30
Check for understanding of time pref 2	298	0.074	281	0.085	0.61
Time pref: time consistent preferences	298	0.53	281	0.60	0.12
Time pref: present-biased	298	0.29	281	0.22	0.050
Time pref: future-biased	298	0.17	281	0.18	0.83
Time Pref (framed): Standard Preferences (impatient)	298	0.52	281	0.46	0.12
Time Pref (framed): Standard Preferences (patient)	298	0.41	281	0.48	0.12
Time Pref (framed): Present-Biased	298	0.037	281	0.039	0.89
Time Pref (framed): Future-Biased	298	0.027	281	0.025	0.88
Are you setting aside any money for specific reasons?	298	0.40	281	0.40	0.85
Number of saving goals mentioned	298	0.77	281	0.77	0.95
Mention child education expenses as a savings goal	298	0.14	281	0.16	0.52
Savings: can't save because of lack of income	298	0.91	281	0.89	0.61
Savings: can't save because family/friends ask for money	298	0.091	281	0.078	0.60
Savings: can't save because of spending on temptation goods	298	0.21	281	0.17	0.25
Have you taken any loan	298	0.57	281	0.58	0.82
Credit: taken loan from family or friend	298	0.40	281	0.39	0.84
Credit: total amount borrowed in past 12 months	169	7467.2	162	7006.8	0.80
Credit: total outstanding amount of all loans	169	3334.2	162	3644.8	0.80
People you can rely on: in your same town	298	1.53	281	1.58	0.63
People you can rely on: in Kisumu county, but not close by	298	0.63	281	0.54	0.31
People can rely on: outside Kisumu county, but not Nairobi	298	0.41	281	0.30	0.21
People can rely on: in Nairobi	298	0.61	281	0.35	0.17
People can rely on: in Mombasa	298	0.13	281	0.12	0.77
People can rely on: outside of Kenya	298	0.10	281	0.050	0.30
Total number of people could rely on	298	3.43	281	2.94	0.17
At least one person could be relied on	298	0.92	281	0.94	0.33
People listed as could be relied on	298	2.46	281	2.36	0.46
Proportion of people could be relied on is male	275	0.36	265	0.36	0.90
Proportion of people listed as could be relied on, sent money	275	0.55	265	0.60	0.14

All money received from others, past 3 months	298	3265.2	281	3051.0	0.81
Total amount received that is for shocks	298	1669.9	281	1741.7	0.90
At least one person sent money to	298	0.61	281	0.61	0.98
Nmber of people sent money to in past 3 months	298	0.76	281	0.84	0.23
Proportion of people sent money to is male	181	0.17	171	0.13	0.23
All money sent to others, past 3 months	298	942.5	281	1117.5	0.39
Total amount sent that is for shocks	298	499.3	281	489.2	0.95
Number of other friends listed	298	0.98	281	0.99	0.98
Member/leader in at least one social/community group	298	0.78	281	0.72	0.098
Total number of groups a part of	298	1.82	281	1.58	0.11
Holds a leadership position in at least one social/community group	298	0.11	281	0.14	0.44
Most people are basically honest	298	2.03	281	1.98	0.59
Most people can be trusted	298	1.86	281	1.89	0.78
Most government officials can be trusted to do their job well	298	2.14	281	2.19	0.62
I feel I can trust my neighbors to look after my house	298	2.65	281	2.65	1.00
Now, let s review. How many people did you mention in total ?	298	5.97	281	6.24	0.49
Network: prop of people considered friend	291	0.58	273	0.60	0.60
Network: prop of people belonging to same church	291	0.20	273	0.18	0.50
Network: prop of people belonging to same ethnic group	291	0.85	273	0.86	0.52
Network: prop of people had conversation more than 5 min in last 7 days	291	0.47	273	0.48	0.75
Network: prop of people whom trust for info on new product	291	0.52	273	0.53	0.71
Network: prop of people who have better info on new products than self	291	0.48	273	0.48	0.89
Network: num of people can rely on for support	298	2.42	281	2.69	0.23
Network: prop of people can rely on for support	291	0.46	273	0.47	0.71
Network: num of people would support	298	3.30	281	3.63	0.21
Network: prop of people would support	291	0.61	273	0.62	0.88
Network: num of mutual support connections	298	2.36	281	2.61	0.25
Network: prop of mutual support connections	291	0.45	273	0.46	0.78
Network: num of people could rely on (ranked, max=5)	298	1.91	281	2.00	0.55
Network: number of mismatches between friendship, mutual RSN	298	1.70	281	1.90	0.33
Network: number of mismatches between trusted info, mutual RSN	298	1.12	281	1.00	0.31
Network: number of mismatches between superior info, mutual RSN	298	1.66	281	1.72	0.75
HFIAS Score (range 0-27)	298	11.5	281	11.6	0.82
Food Secure	298	0.10	281	0.060	0.077
Mildly Food Access Insecure	298	0.030	281	0.036	0.72
Moderately Food Access Insecure	298	0.20	281	0.24	0.24
Severely Food Access Insecure	298	0.67	281	0.66	0.88
Food: Anxiety and uncertainty in last 4 weeks	298	0.76	281	0.77	0.84
Food: Insufficient quality of food in last 4 weeks	298	0.89	281	0.93	0.070
Food: Insufficient food intake	298	0.84	281	0.87	0.32
Status in community (10-point scale)	298	3.61	281	3.54	0.67
Where on ladder households stand at present?	298	3.72	281	3.66	0.68
Where on ladder household will stand one year from now?	294	5.24	281	5.36	0.47
Where on ladder household will stand five years from now?	293	6.89	280	6.92	0.89
Locus of control additive score (0-24: most control)	298	14.9	281	15.3	0.100
Self-esteem additive score (0-24: highest self esteem)	298	12.6	281	12.1	0.16
Numeracy: first 5 questions all correct	298	0.40	281	0.35	0.24
Numeracy: additive score for hard questions (scale: 0-11)	119	5.24	99	4.96	0.40
Numeracy: total additive score (weighted questions 6-16)	298	4.77	281	4.56	0.18
Degree of Anxiety Disorder: using GAD-7 scale	298	0.80	281	0.74	0.40
GAD: Mild Anxiety	298	0.43	281	0.41	0.68
GAD: Moderate Anxiety	298	0.40	281	0.46	0.15
GAD: Moderate-Severe Anxiety	298	0.13	281	0.11	0.62
GAD: Severe Anxiety	298	0.047	281	0.018	0.049

Was anxiety related to female cycle?	32	0.28	27	0.33	0.67
Out of 100 people in comm, how many guess have HIV/AIDS?	290	51.2	270	50.3	0.73
What are the chances you currently have the HIV virus?	298	4.43	281	3.91	0.16

Table A7: Baseline descriptives table, for follow-up sample

	Full Sample		Rural	Urban
	mean	std dev	mean	mean
Demographics				
Household size	3.53	2.11	4.21	2.85
Widowed	0.38	0.48	0.57	0.18
Divorced or separated	0.33	0.47	0.29	0.38
Has more than primary education	0.37	0.48	0.30	0.45
Income, Expenses and Wealth				
Income in past 7 days	1675.2	8148.1	1387.8	1967.7
Spending on temptation goods in past 7 days	399.9	747.1	215.7	587.3
Spending on non-food expenses in past 30 days	1377.5	2620.8	835.9	1928.5
Resale value of livestock assets	11124.8	28943.6	18130.8	3996.7
Value of non-livestock assets	54182.0	76324.3	32511.1	76230.5
Severely food insecure (HFIA scale)	0.66	0.47	0.73	0.60
Savings and Credit				
Max emergency can cover by self-financing	732.7	1751.3	382.7	1088.9
Has positive M-PESA balance	0.89		0.86	0.92
Has other mobile banking	0.04		0.01	0.07
Has formal bank account	0.16		0.07	0.26
Participates in ROSCA	0.68		0.62	0.74
M-PESA Balance	625.6		434.29	822.5
Other mobile bank balance	51.2		29.1	74.0
Home savings balance	393.7		187.1	606.4
Formal bank balance	1515.0		171.7	28976
Any loan in past 12 months	0.57	0.50	0.61	0.54
Interpersonal Transfers				
Can rely on at least 1 person for support	0.93	0.25	0.92	0.94
Number of people can rely on	2.41	1.68	2.12	2.71
Total amount received in past 3 months	3161.2	10523.0	2310.7	4026.5
Total amount received that is for shocks	1704.7	7164.0	1271.2	2145.9
Sent money to at least one person in past 3 months	0.61	0.49	0.52	0.70
Number of people sent money to	0.80	0.79	0.65	0.94
Total amount sent in past 3 months	1027.4	2464.9	494.4	1569.8
Transfers: total amount sent that is for shocks	494.4	1845.6	194.4	799.5
Observations	579		292	287

Notes: Temptation goods include jewelry, perfume, cosmetics, clothing, hairdressing, snacks, airtime, meals outside the home, cigarettes, alcohol and recreational drugs. Other non-food expenses include car battery, wedding and social events, funeral, health, expenses, family planning, electronics, household assets and home improvement. The following purposes are considered transfers for shocks: medical, wedding, funeral, or food consumption expenses. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study.

Table A8: Correlates of self-reported potential transfers one can send

	(1) Income, past 7 days	(2) Value of non-livestock assets	(3) Value of livestock assets	(4) Total savings balance	(5) Total ROSCA balance
Panel A					
Potential transfers, total	0.12	5.11***	0.67	0.71***	0.49***
	(0.29)	(1.65)	(1.05)	(0.20)	(0.16)
Observations	579	579	579	579	579
Panel B					
Potential transfers, mean	0.03	13.91***	1.30	2.11***	1.61**
	(0.50)	(4.21)	(2.12)	(0.74)	(0.63)
Observations	579	579	579	579	579

Notes: Unit of observation is an individual i. The dependent variables are baseline measures of income, assets, and savings. In panel A, the independent variable is the total endline potential transfers one can send to risk-sharing partners. In panel B, the independent variable is the mean endline potential transfers one can send, averaged across the risk-sharing partners of individual i. Estimation procedure used is OLS with cluster-robust standard errors at the geographic cluster level. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Constant is included in all regressions, but not shown.

Table A9: Effects of intervention on savings (rural and urban samples)

Panel A: M-PESA Administrative Data						
	Weekly Deposits			Weekly Balances		
	(1)	(2)	(3)	(4)	(5)	(6)
	Labeled M-PESA	Existing M-PESA	Total M-PESA	Labeled M-PESA	Existing M-PESA	Total M-PESA
Rural Sample						
Treat X Post		-196	-133		222	430*
		(224)	(224)		250	(253)
Post	63***	19	19	208***	-300	-300
	(23)	(198)	(198)	(46)	227	(227)
Observations	6,418	12,867	12,867	6,418	12,867	12,867
Urban Sample						
Treat X Post		74	274		196	494
		(238)	(252)		370	(384)
Post	200**	-62	-62	298***	161	161
	(80)	(162)	(162)	(68)	308	(308)
Observations	5,898	12,604	12,604	5,898	12,604	12,604
H_0: Post (Rural) = Post (Urban)						
p-value	0.42		0.30			
H_0: Treat X Post (Rural) = Treat X Post (Urban)						
p-value		0.36	0.29		0.69	0.56

Panel B: Self-Reported Savings Data				
	(1)	(2)	(3)	(4)
	Other Mobile Savings	Home Savings	Bank Savings	Number ROSCAS
Rural Sample				
Treat X Post	-12	-263***	75	-0.07
	(45)	(101)	(285)	(0.12)
Post	31	131*	31	-0.07
	(41)	(71)	(82)	(0.09)
Observations	546	546	546	546
Control Mean	55	261	117	0.70
Urban Sample				
Treat X Post	-101	224	609	-0.04
	(80)	(537)	(1,322)	(0.14)
Post	123**	380	194	-0.18*
	(62)	(343)	(942)	(0.09)
Observations	529	529	529	529
Control Mean	149	1,067	2,468	0.93
H_0: Treat X Post (Rural) = Treat X Post (Urban)				
p-value	0.52	0.19	0.75	0.75

Notes: Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study.

Table A10: Effects of Monthly SMS Reminders on M-PESA Outcomes

M-PESA Administrative Data						
	Weekly Deposits			Weekly Balances		
	(1)	(2)	(3)	(4)	(5)	(6)
	Labeled M-PESA	Existing M-PESA	Total M-PESA	Labeled M-PESA	Existing M-PESA	Total M-PESA
SMS X Post	46	-82	-36	-18	14	-4
	(96)	(293)	(319)	(139)	(110)	(173)
Observations	7,802	7,802	7,802	7,802	7,802	7,802

Notes: Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study.

Table A11: Treatment effect on the difference between potential transfers one can receive and send (undirectional)

	(1)	(2)
	Net Potential Transfers	Net Potential Transfers
($\hat{\beta}_1$) i and j treatment	-9.0	3.0
	(20.3)	(3.6)
($\hat{\beta}_2$) i or j treatment	4.6	4.8
	(21.6)	(3.6)
Observations	1112	8241
Mean in Control	7.6	-0.5

Notes: Unit of observation is an undirectional dyad ij, where dependent variable is the difference between potential transfers one can receive and send. Sample in column 1 includes all dyads which were risk-sharing at baseline. Sample in column 2 includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A12: Baseline risk-sharing dyads, undirectional: alternative specifications for dyad level outcome variable

	(1) Potential Transfers Can Receive	(2) Potential Transfers Can Send	(3) Actual Transfers Received	(4) Actual Transfers Sent
Panel A: mean of i and j reports				
($\hat{\beta}_1$) i and j treatment	-116.1**	-110.5**	-20.3**	-7.6
	(53.7)	(50.2)	(10.1)	(7.6)
($\hat{\beta}_2$) i or j treatment	-73.9	-78.3*	-8.6	-0.3
	(47.2)	(43.1)	(10.8)	(8.0)
Observations	1112	1112	1112	1112
Mean in Control	219.9	219.0	28.3	19.0
Panel B: sum of i and j reports				
($\hat{\beta}_1$) i and j treatment	-233.6**	-221.1**	-40.9**	-15.1
	(107.3)	(100.4)	(20.2)	(15.2)
($\hat{\beta}_2$) i or j treatment	-149.9	-157.3*	-18.3	-0.5
	(94.2)	(86.1)	(21.4)	(15.9)
Observations	1112	1112	1112	1112
Mean in Control	439.1	437.3	56.5	38.0

Notes: Unit of observation is an undirectional dyad ij, where dependent variable is a measure of risk-sharing at endline. In panel A, we take the mean of the reports of i and j as the dyad-level observation. In panel B, we take the sum of the reports of i and j as the dyad-level observation. Sample includes all dyads which were risk-sharing at baseline. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A13: Baseline risk-sharing dyads: using directional dyadic regressions

	(1) Potential Transfers Can Receive	(2) Potential Transfers Can Send	(3) Actual Transfers Received	(4) Actual Transfers Sent
($\hat{\beta_1}$) i and j treatment	-157.2**	-156.3**	-31.2**	-15.3
	(79.4)	(74.5)	(15.5)	(9.9)
($\hat{\beta_2}$) i treatment, j control	-120.3	-126.9*	-14.3	-9.7
	(77.9)	(73.0)	(18.7)	(12.2)
($\hat{\beta_3}$) i control, j treatment	-99.5	-96.4	-12.2	13.9
	(64.4)	(58.8)	(17.8)	(16.8)
Observations	1292	1292	1292	1292
Mean in Control	329.6	322.3	44.3	26.9

Notes: Unit of observation is a directional dyad ij, where dependent variable is a measure of risk-sharing at endline. Sample includes all dyads which were risk-sharing at baseline. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A14: All dyads, undirectional: alternative specifications for dyad level outcome variable

	(1) Potential Transfers Can Receive	(2) Potential Transfers Can Send	(3) Actual Transfers Received	(4) Actual Transfers Sent
Panel A: mean of i and j reports				
($\hat{\beta}_1$) i and j treatment	-15.0*	-16.1**	-5.8**	-2.1*
	(8.7)	(8.2)	(2.3)	(1.3)
($\hat{\beta}_2$) i or j treatment	-11.4	-14.2*	-4.1*	-1.4
	(8.8)	(8.2)	(2.1)	(1.2)
Observations	8241	8241	8241	8241
Mean in Control	37.4	38.1	7.4	3.9
Panel B: sum of i and j reports				
($\hat{\beta}_1$) i and j treatment	-30.1*	-32.3**	-11.5**	-4.2*
	(17.4)	(16.4)	(4.7)	(2.5)
($\hat{\beta}_2$) i or j treatment	-24.5	-29.6*	-8.4**	-2.9
	(17.5)	(16.3)	(4.3)	(2.4)
Observations	8241.0	8241.0	8241.0	8241.0
Mean in Control	74.6	76.1	14.9	7.8

Notes: Unit of observation is an undirectional dyad ij, where dependent variable is a measure of risk-sharing at endline. In panel A, we take the mean of the reports of i and j as the dyad-level observation. In panel B, we take the sum of the reports of i and j as the dyad-level observation. Sample includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A15: All dyads: using directional dyadic regressions

	(1) Potential Transfers Can Receive	(2) Potential Transfers Can Send	(3) Actual Transfers Received	(4) Actual Transfers Sent
($\hat{\beta_1}$) i and j treatment	-15.8*	-17.0*	-6.3**	-2.3
	(9.5)	(8.9)	(2.6)	(1.4)
($\hat{\beta_2}$) i treatment, j control	-12.1	-14.9	-4.4	-2.6*
	(10.0)	(9.2)	(2.8)	(1.4)
($\hat{\beta_3}$) i control, j treatment	-13.7	-15.3*	-4.8**	-0.6
	(9.8)	(9.2)	(2.1)	(1.7)
Observations	15346	15346	15346	15346
Mean in Control	40.2	40.0	8.0	4.2

Notes: Unit of observation is a directional dyad ij, where dependent variable is a measure of risk-sharing at endline. Sample includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A16: All dyads, undirectional: test for formation and net formation of risk-sharing links using dyad fixed effects

	(1)	(2)	(3)	(4)	(5)	(6)
	Outcome: risk-sharing link					
	Severance		*Formation*		*Net formation*	
	OLS	Panel dyad fixed effects	OLS	Panel dyad fixed effects	OLS	Panel dyad fixed effects
($\hat{\beta_1}$) i and j treatment	-0.025	-0.028	-0.006	-0.006	-0.007	-0.012
	(0.048)	(0.051)	(0.006)	(0.007)	(0.010)	(0.015)
($\hat{\beta_2}$) i or j treatment	-0.023	-0.028	-0.005	-0.005	-0.006	-0.014
	(0.032)	(0.035)	(0.005)	(0.005)	(0.007)	(0.009)
Endline dummy		-0.692***		0.027***		-0.067***
		(0.033)		(0.005)		(0.010)
Observations	1112	2224	7129	14258	8241	16482
Mean in Control	0.308	1.000	0.027	0.000	0.064	0.135

Notes: In columns 1 and 2, sample includes all possible undirectional dyads within geographic cluster that were risk-sharing at baseline. In columns 3 and 4, sample includes all possible undirectional dyads within geographic cluster that were not risk-sharing at baseline. In columns 5 and 6, sample includes all possible undirectional dyads within geographic cluster. In columns 1, 3 and 5, the dependent variable indicates whether the ij dyad was risk-sharing at endline. Estimation procedure used is OLS with dyadic-robust standard errors. Included as regressors but not shown: age of i, age of j, geographic cluster fixed effects, and a constant. In columns 2, 4, and 6, the dependent variable indicates whether the ij dyad was risk-sharing at time t, where t is baseline or endline. Estimation procedure used is panel dyad fixed effects with two-way clustered standard errors at the i-level and j-level. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10.

Table A17: Effect of savings on risk-sharing (urban subsample only)

	(1)	(2)	(3)	(4)	(5)	(6)
		OLS			*Tobit*	
	Potential Transfers Can Receive	Potential Transfers Can Send	Actual Transfers Received	Actual Transfers Sent	Actual Transfers Received	Actual Transfers Sent
Panel A: baseline risk-sharing dyads						
($\hat{\beta_1}$) i and j treatment	-359.2**	-333.7**	-67.5*	-23.7	-958.2*	-885.9
	(153.3)	(137.4)	(35.2)	(26.3)	(580.0)	(569.6)
($\hat{\beta_2}$) i or j treatment	-183.8	-171.1	-34.5	-20.4	-618.4	-712.0**
	(129.7)	(110.4)	(35.1)	(23.3)	(460.8)	(278.4)
Observations	535	535	535	535	535	535
Mean in Control	494.9	473.1	73.1	51.3	73.1	51.3
Panel B: all dyads within geographic cluster						
($\hat{\beta_1}$) i and j treatment	-51.8**	-57.5**	-15.0**	-7.6	-593.9	-683.4**
	(26.3)	(23.6)	(7.3)	(5.1)	(377.9)	(344.1)
($\hat{\beta_2}$) i or j treatment	-32.4	-37.9	-11.6*	-8.3**	-727.0***	-999.1***
	(26.8)	(23.4)	(6.9)	(3.9)	(248.8)	(178.7)
Observations	3632	3632	3632	3632	3632	3632
Mean in Control	101.1	100.9	19.8	12.9	19.8	12.9

Notes: Unit of observation is an undirectional dyad ij, where dependent variable is a measure of risk-sharing at endline. We take the maximum of the report of i and j as the dyad-level observation. Sample in panel A includes all dyads which were risk-sharing at baseline. Sample in panel B includes all possible dyads within each geographic cluster. Estimation procedure used in columns 1 to 4 is OLS with dyadic-robust standard errors. Estimation procedure used in columns 5 to 6 is Tobit, with standard errors clustered at the geographic cluster level. Standard errors are shown in parentheses. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A18: Effect of savings on risk-sharing (rural subsample only)

	(1)	(2)	(3)	(4)	(5)	(6)
		OLS			*Tobit*	
	Potential Transfers Can Receive	Potential Transfers Can Send	Actual Transfers Received	Actual Transfers Sent	Actual Transfers Received	Actual Transfers Sent
Panel A: baseline risk-sharing dyads						
($\hat{\beta_1}$) i and j treatment	-80.4	-82.4	-19.0	-13.8	-397.3***	-232.8***
	(78.2)	(74.0)	(17.9)	(18.6)	(15.4)	(17.6)
($\hat{\beta_2}$) i or j treatment	-75.8	-97.7	-1.2	14.2	-156.1***	121.0***
	(58.2)	(61.8)	(14.7)	(15.1)	(7.9)	(20.6)
Observations	577	577	577	577	577	577
Mean in Control	211.7	222.5	27.9	16.7	27.9	16.7
Panel B: all dyads within geographic cluster						
($\hat{\beta_1}$) i and j treatment	-4.3	-4.9	-7.9	-0.9	-618.8***	-138.6***
	(11.5)	(11.0)	(6.0)	(1.9)	(17.8)	(12.8)
($\hat{\beta_2}$) i or j treatment	-10.1	-14.1*	-5.3	1.7	-373.4***	74.7***
	(7.9)	(8.3)	(5.0)	(2.0)	(14.7)	(20.4)
Observations	4609	4609	4609	4609	4609	4609
Mean in Control	32.0	32.9	9.3	2.3	9.3	2.3

Notes: Unit of observation is an undirectional dyad ij, where dependent variable is a measure of risk-sharing at endline. We take the maximum of the report of i and j as the dyad-level observation. Sample in panel A includes all dyads which were risk-sharing at baseline. Sample in panel B includes all possible dyads within each geographic cluster. Estimation procedure used in columns 1 to 4 is OLS with dyadic-robust standard errors. Estimation procedure used in columns 5 to 6 is Tobit, with standard errors clustered at the geographic cluster level. Standard errors are shown in parentheses. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A19: State-contingent transfers: test for treatment effect on shock experience

	(1) Any Shock	(2) Any Shock (for i)	(3) Any Shock (for j)
($\hat{\beta}_1$) i treatment	-0.01		
	(0.04)		
($\hat{\beta}_1$) i and j treatment		-0.00	-0.00
		(0.04)	(0.04)
($\hat{\beta}_2$) i treatment, j control		-0.00	0.00
		(0.04)	(0.00)
($\hat{\beta}_3$) i control, j treatment		0.00	0.00
		(0.00)	(0.04)
Observations	579	15346	14210
Mean in Control	0.45	0.44	0.44

Notes: In column 1, unit of observation is an individual i. The dependent variable is an indicator of whether individual i experienced a shock in the 4-month period before endline. Estimation procedure is OLS with robust standard errors. Included as regressors but not shown: age, geographic cluster fixed effects, and a constant In columns 2 and 3, unit of observation is a directional dyad ij. The dependent variable is an indicator for whether individual i or j experienced a shock. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A20: Charitable support: unrestricted i-level regressions

	(1) Number of people respondent can rely on	(2) Total potential transfers can receive	(3) Total actual transfers received	(4) Number of people who can rely on respondent	(5) Total potential transfers can send	(6) Total actual transfers sent
Panel A: sum across all types of unrestricted support partners						
($\hat{\beta}_1$) i treatment	0.1	882.0	782.7*	0.1	618.1	119.4
	(0.2)	(762.3)	(420.0)	(0.2)	(485.1)	(273.6)
Observations	579	579	579	579	579	579
Mean in Control	4.0	6925.6	2584.4	2.8	3338.1	1582.7
Panel B: sum across unrestricted risk-sharing partners at endline						
($\hat{\beta}_1$) i treatment	0.2	861.8	362.3	0.2	661.7*	247.5
	(0.2)	(702.7)	(289.1)	(0.2)	(367.1)	(161.6)
Observations	579	579	579	579	579	579
Mean in Control	3.3	5631.5	1934.0	1.9	2245.3	689.3

Notes: Unit of observation is an individual i, In panel A, the dependent variable is the sum of a support measure across all types of unrestricted support partners. In panel B, the dependent variable is the sum of a support measure across unrestricted risk-sharing partners. Estimation procedure is OLS with robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: age of i, geographic cluster fixed effects, and a constant.

Table A21: Miscellaneous explanations: test for treatment-induced change in type of risk-sharing partners

	(1) Family Member	(2) Same Ethnicity	(3) Value of Assets	(4) Status in Community
($\hat{\beta}_1$) i treatment	0.00	-0.03	2737.02	0.08
	(0.04)	(0.03)	(6347.64)	(0.14)
Observations	317	317	309	309
Mean in Control	0.15	0.91	74247	3.77

Notes: Unit of observation is an individual i, The dependent variable is the mean of a given characteristic across in-sample risk-sharing partners. Estimation procedure is OLS with robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: age, geographic cluster fixed effects, and a constant.

Table A22: Welfare effects: components of the HFIAS

	(1) **Domain: Anxiety**	(2) **Domain: Quality**	(3) **Domain: Quantity**	(4) Quantity: Smaller Meals	(5) Quantity: Fewer Meals	(6) Quantity: No Food At Home	(7) Quantity: Sleep Hungry	(8) Quantity: Not Eat Full Day
($\hat{\delta_1}$) i and j treatment and i shock=1	-0.07	-0.02	-0.11**	-0.23**	-0.38***	-0.12	-0.03	-0.01
	(0.06)	(0.05)	(0.05)	(0.12)	(0.12)	(0.09)	(0.08)	(0.09)
($\hat{\delta_2}$) i treatment, j control, and i shock=1	-0.07	-0.02	-0.11**	-0.24**	-0.39***	-0.12	-0.04	-0.01
	(0.06)	(0.05)	(0.06)	(0.12)	(0.12)	(0.10)	(0.09)	(0.09)
($\hat{\delta_3}$) i control, j treatment, and i shock=1	-0.00	0.00	-0.00	-0.01	-0.01	-0.00	-0.01	-0.01
	(0.01)	(0.01)	(0.00)	(0.01)	(0.01)	(0.02)	(0.02)	(0.01)
($\hat{\delta_4}$) i and j treatment and i shock=0	-0.03	0.04	0.05	0.04	0.11	0.05	0.13*	0.05
	(0.06)	(0.05)	(0.05)	(0.10)	(0.10)	(0.08)	(0.07)	(0.07)
($\hat{\delta_5}$) i treatment, j control, and i shock=0	-0.03	0.04	0.05	0.04	0.12	0.05	0.13*	0.05
	(0.06)	(0.05)	(0.05)	(0.10)	(0.10)	(0.08)	(0.07)	(0.08)
($\hat{\delta_6}$) i control, j treatment, and i shock=0	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00
	(0.01)	(0.01)	(0.00)	(0.01)	(0.01)	(0.02)	(0.01)	(0.02)
($\hat{\delta_7}$) i shock=1	0.17***	0.17***	0.24***	0.33***	0.51***	0.23**	0.20***	0.14*
	(0.06)	(0.05)	(0.05)	(0.11)	(0.12)	(0.10)	(0.08)	(0.08)
χ^2 test (δ_1)=(δ_4), p-value	0.65	0.46	0.04	0.09	0.00	0.20	0.14	0.62
χ^2 test (δ_2)=(δ_5), p-value	0.62	0.40	0.04	0.08	0.00	0.21	0.13	0.63
χ^2 test (δ_3)=(δ_6), p-value	0.76	0.98	0.25	0.27	0.31	0.98	0.71	0.75
Observations	15346	15346	15346	15346	15346	15346	15346	15346
Mean in Control, i shock=1	0.65	0.76	0.68	1.04	1.13	0.58	0.43	0.35

Notes: Unit of observation is a directional dyad ij, where dependent variable is a welfare measure for individual i. Sample includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: baseline outcome variable, absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A23: Welfare effects: sharpened q-values for FDR control

	(1) Food security score (HFIAS)	(2) Amount has to cover non-food expenses (<0)	(3) Subjective status, 10-point scale
($\hat{\delta_1}$) i and j treatment and i shock=1	1.26	1291.41	0.47
	(0.074)	(0.122)	(0.009)
	[0.286]	[0.350]	[0.099]
($\hat{\delta_2}$) i treatment, j control, and i shock=1	1.32	1303.83	0.44
	(0.065)	(0.099)	(0.016)
	[0.286]	[0.319]	[0.113]
($\hat{\delta_3}$) i control, j treatment, and i shock=1	0.07	-18.29	-0.01
	(0.324)	(0.777)	(0.225)
	[0.728]	[1.000]	[0.482]
($\hat{\delta_4}$) i and j treatment and i shock=0	-0.54	-232.93	-0.14
	(0.423)	(0.878)	(0.384)
	[0.734]	[1.000]	[0.734]
($\hat{\delta_5}$) i treatment, j control, and i shock=0	-0.57	-242.15	-0.12
	(0.408)	(0.877)	(0.461)
	[0.734]	[1.000]	[0.749]
($\hat{\delta_6}$) i control, j treatment, and i shock=0	-0.04	-12.23	0.01
	(0.631)	(0.950)	(0.781)
	[1.000]	[1.000]	[1.000]
($\hat{\delta_7}$) i shock=1	-2.28	-470.13	-0.34
	(0.002)	(0.690)	(0.046)
	[0.022]	[1.000]	[0.262]
Observations	15346.00	15346.00	15346.00
Mean in Control, i shock=1	-8.53	-2633.05	3.44

Notes: Unit of observation is a directional dyad ij, where dependent variable is a welfare measure for individual i. Sample includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. p-values are shown in parentheses, and the sharpened q-values to control for the false discovery rate (FDR) are shown in brackets. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: baseline outcome variable, absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A24: HFIAS: sharpened q-values for FDR control

	(1) Quantity: Smaller Meals	(2) Quantity: Fewer Meals	(3) Quantity: No Food At Home	(4) Quantity: Sleep Hungry	(5) Quantity: Not Eat Full Day
($\hat{\delta}_1$) i and j treatment and i shock=1	-0.23	-0.38	-0.12	-0.03	-0.01
	(0.046)	(0.001)	(0.210)	(0.703)	(0.905)
	[0.201]	[0.012]	[0.640]	[1.000]	[1.000]
($\hat{\delta}_2$) i treatment, j control, and i shock=1	-0.24	-0.39	-0.12	-0.04	-0.01
	(0.042)	(0.001)	(0.218)	(0.662)	(0.917)
	[0.201]	[0.012]	[0.640]	[1.000]	[1.000]
($\hat{\delta}_3$) i control, j treatment, and i shock=1	-0.01	-0.01	-0.00	-0.01	-0.01
	(0.259)	(0.479)	(0.925)	(0.703)	(0.592)
	[0.640]	[1.000]	[1.000]	[1.000]	[1.000]
($\hat{\delta}_4$) i and j treatment and i shock=0	0.04	0.11	0.05	0.13*	0.05
	(0.714)	(0.260)	(0.530)	(0.057)	(0.515)
	[1.000]	[0.640]	[1.000]	[0.220]	[1.000]
($\hat{\delta}_5$) i treatment, j control, and i shock=0	0.04	0.12	0.05	0.13*	0.05
	(0.705)	(0.235)	(0.552)	(0.062)	(0.526)
	[1.000]	[0.640]	[1.000]	[0.220]	[1.000]
($\hat{\delta}_6$) i control, j treatment, and i shock=0	0.00	0.00	-0.00	0.00	0.00
	(0.805)	(0.689)	(0.964)	(0.816)	(0.889)
	[1.000]	[1.000]	[1.000]	[1.000]	[1.000]
($\hat{\delta}_7$) i shock=1	0.33	0.51	0.23	0.20	0.14
	(0.004)	(0.000)	(0.023)	(0.008)	(0.086)
	[0.034]	[0.001]	[0.130]	[0.053]	[0.268]
Observations	15346	15346	15346	15346	15346
Mean in Control, i shock=1	1.04	1.13	0.58	0.43	0.35

Notes: Unit of observation is a directional dyad ij, where dependent variable is a welfare measure for individual i. Sample includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. p-values are shown in parentheses, and the sharpened q-values to control for the false discovery rate (FDR) are shown in brackets. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: baseline outcome variable, absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A25: Alternative welfare indicators: income and consumption

	(1) Income, in past week	(2) Large expenses, past 4 months	(3) Removed child from school	(4) Diet diversity	(5) Food expenses, past 7 days	(6) Food consumption, past 7 days
($\hat{\delta_1}$) i and j treatment and i shock=1	-160.57	-2252.30	-0.07	-0.27*	27.68	87.59
	(417.23)	(2523.61)	(0.06)	(0.14)	(96.69)	(118.36)
($\hat{\delta_2}$) i treatment, j control, and i shock=1	-242.77	-2198.93	-0.07	-0.29**	26.90	91.24
	(358.44)	(2657.11)	(0.06)	(0.14)	(97.81)	(121.28)
($\hat{\delta_3}$) i control, j treatment, and i shock=1	102.64	72.28	-0.01	0.02	-3.69	4.88
	(102.90)	(401.65)	(0.00)	(0.02)	(10.67)	(10.34)
($\hat{\delta_4}$) i and j treatment and i shock=0	-475.01	1284.44	-0.06	0.03	-29.49	-23.44
	(893.59)	(1313.28)	(0.04)	(0.13)	(101.18)	(131.84)
($\hat{\delta_5}$) i treatment, j control, and i shock=0	-342.73	1309.48	-0.05	0.06	-31.90	-17.07
	(971.56)	(1292.74)	(0.04)	(0.13)	(102.30)	(139.35)
($\hat{\delta_6}$) i control, j treatment, and i shock=0	4.04	118.58	0.01	-0.02*	3.34	2.29
	(53.10)	(218.96)	(0.01)	(0.01)	(9.33)	(12.82)
($\hat{\delta_7}$) i shock=1	-1382.12**	4400.86	0.16***	0.09	-54.50	-72.61
	(594.16)	(2840.26)	(0.06)	(0.13)	(94.10)	(106.30)
Observations	15346	15346	15346	15346	15254	15346
Mean in Control, i shock=1	1309.05	11588.54	0.37	4.03	1263.50	1260.01
χ^2 test (δ_1)=(δ_4), p-value	0.76	0.25	0.85	0.13	0.69	0.54
χ^2 test (δ_2)=(δ_5), p-value	0.92	0.26	0.81	0.07	0.68	0.56
χ^2 test (δ_3)=(δ_6), p-value	0.44	0.93	0.09	0.05	0.41	0.83

Notes: Unit of observation is a directional dyad ij, where dependent variable is a welfare measure for individual i. Sample includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.

Table A26: Alternative welfare indicators: subjective status questions

	(1) Financial situation 5-point scale	(2) Financial situation vs 4 months ago	(3) Standing in community	(4) Subjective status vs 1 year ago	(5) Subjective status in 1 year vs now	(6) Subjective status in 5 years vs now
($\hat{\delta_1}$) i and j treatment and i shock=1	-0.04	-0.20	0.39**	0.21	-0.33**	-0.33
	(0.14)	(0.13)	(0.18)	(0.16)	(0.17)	(0.22)
($\hat{\delta_2}$) i treatment, j control, and i shock=1	-0.05	-0.21	0.38**	0.20	-0.33**	-0.34
	(0.14)	(0.13)	(0.18)	(0.16)	(0.17)	(0.22)
($\hat{\delta_3}$) i control, j treatment, and i shock=1	-0.01	-0.00	0.00	-0.02	-0.01	-0.02
	(0.01)	(0.01)	(0.01)	(0.02)	(0.01)	(0.01)
($\hat{\delta_4}$) i and j treatment and i shock=0	-0.10	-0.13	-0.18	0.02	-0.10	-0.09
	(0.11)	(0.09)	(0.15)	(0.14)	(0.12)	(0.17)
($\hat{\delta_5}$) i treatment, j control, and i shock=0	-0.11	-0.13	-0.15	0.02	-0.11	-0.10
	(0.12)	(0.09)	(0.16)	(0.15)	(0.13)	(0.17)
($\hat{\delta_6}$) i control, j treatment, and i shock=0	-0.01	-0.00	0.01	0.02	-0.01	-0.01
	(0.01)	(0.01)	(0.02)	(0.04)	(0.01)	(0.02)
($\hat{\delta_7}$) i shock=1	-0.19	-0.08	-0.33**	-0.17	0.07	-0.06
	(0.13)	(0.11)	(0.16)	(0.18)	(0.17)	(0.21)
Observations	15346	15346	15346	15334	15020	14781
Mean in Control, i shock=1	2.47	-0.09	3.38	0.30	1.47	3.06
χ^2 test (δ_1)=(δ_4), p-value	0.74	0.70	0.02	0.41	0.27	0.38
χ^2 test (δ_2)=(δ_5), p-value	0.76	0.67	0.03	0.42	0.29	0.38
χ^2 test (δ_3)=(δ_6), p-value	0.84	0.98	0.71	0.49	0.90	0.67

Notes: Unit of observation is a directional dyad ij, where dependent variable is a welfare measure for individual i. Sample includes all possible dyads within each geographic cluster. Estimation procedure used is OLS with dyadic-robust standard errors. Standard errors are shown in parentheses. Level of significance: *** p<0.01, ** p<0.05, * p<0.10. Values are reported in Kenyan Shillings (Ksh), 85 Ksh = 1 USD at the time of the study. Included as regressors but not shown: absolute age difference between i and j, sum of age of i and j, geographic cluster fixed effects, and a constant.