

ONLINE APPENDIX

The effect of cash, vouchers and food transfers on intimate partner violence: Evidence from a randomized experiment in Northern Ecuador

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Figure B.1: Distribution of treatment and control neighborhoods

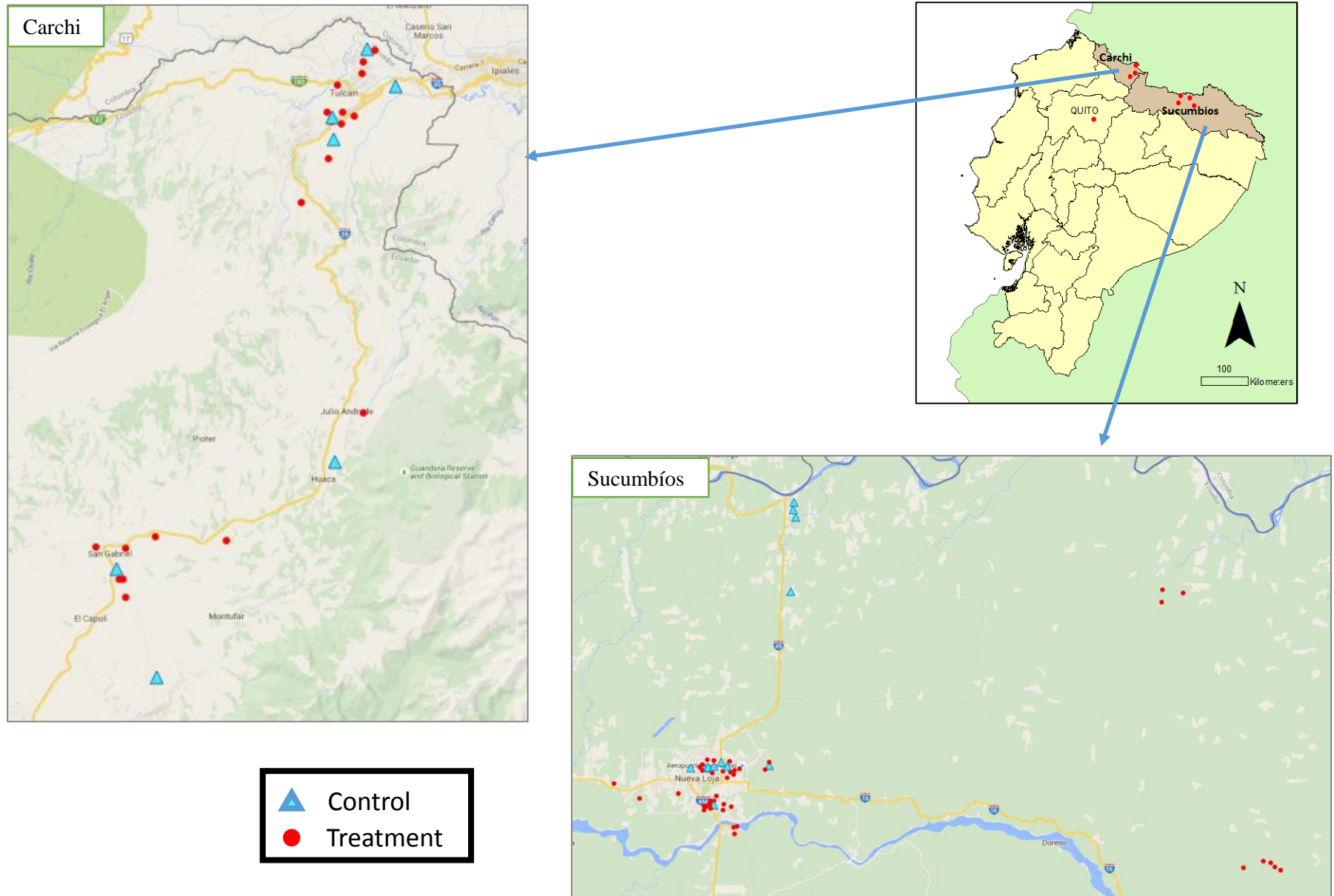


Table B.1: Baseline means by intervention arms

	<u>Means</u>				<u>P-value of diff.</u>					
	Control	Food	Cash	Voucher	Food - Control	Cash - Control	Voucher -Control	Food -Cash	Food - Voucher	Cash - Voucher
Attrition rates	0.16	0.12	0.16	0.14	0.16	0.82	0.34	0.24	0.56	0.48
<i>Female characteristics</i>										
Head of household	0.03	0.03	0.01	0.02	0.78	0.11	0.11	0.28	0.31	0.87
Born in Colombia	0.39	0.32	0.38	0.33	0.35	0.79	0.37	0.43	0.85	0.45
Age	35.29	34.16	34.99	34.75	0.31	0.77	0.61	0.51	0.65	0.85
Some secondary education or higher	0.38	0.35	0.38	0.42	0.58	0.96	0.43	0.56	0.19	0.49
Married	0.42	0.43	0.41	0.43	0.80	0.92	0.76	0.74	0.99	0.69
Indigenous	0.03	0.04	0.05	0.04	0.94	0.40	0.68	0.46	0.75	0.69
Afro-Ecuadorian	0.06	0.03	0.10	0.07	0.18	0.17	0.70	0.01	0.13	0.38
Worked in the last 6 months	0.31	0.33	0.34	0.31	0.53	0.49	0.90	0.93	0.64	0.59
Sole owner of house	0.04	0.04	0.05	0.05	0.85	0.52	0.38	0.74	0.59	0.82
<i>Partner Characteristics</i>										
Partner has some secondary education or higher	0.36	0.39	0.39	0.40	0.58	0.60	0.38	0.97	0.79	0.75
Partner's age	39.20	37.66	38.11	39.18	0.22	0.28	0.99	0.73	0.26	0.34
Partner was employed in the last 6 months	0.96	0.96	0.97	0.97	0.83	0.51	0.59	0.41	0.46	0.84
Partner's hours worked in a typical week	47.27	46.31	47.97	44.84	0.64	0.73	0.21	0.39	0.42	0.08
<i>Household Characteristics</i>										
Number of children 0-5 years in household	0.72	0.81	0.72	0.74	0.26	1.00	0.73	0.30	0.45	0.75
Number of children 6-15 years in household	1.02	0.86	0.91	0.85	0.18	0.26	0.04	0.68	0.91	0.49
Value of total monthly consumption per capita (USD)	107.32	105.83	105.48	107.42	0.83	0.78	0.99	0.96	0.79	0.73
House does not have rooms exclusively for sleeping	0.13	0.16	0.14	0.16	0.38	0.78	0.37	0.55	0.91	0.57
Lifetime physical and or sexual violence	0.33	0.36	0.36	0.34	0.63	0.57	0.89	0.95	0.70	0.64
Controlling behaviors	0.17	0.17	0.15	0.18	0.97	0.51	0.83	0.48	0.85	0.35
Emotional violence	0.24	0.27	0.24	0.29	0.51	0.95	0.19	0.52	0.63	0.22
Physical and or sexual violence	0.12	0.17	0.16	0.19	0.16	0.24	0.03	0.75	0.56	0.33
P-value from joint F-test					0.27	0.36	0.16			

P-values are reported from Wald tests on the equality of means of Pooled treatment and Control for each variable. Comparison of means for female characteristics, partner characteristics, household characteristics, and IPV are conducted on the sample of women in the analysis with both baseline and endline data. Standard errors are clustered at the cluster level.

Table B.2: Impact of treatment on IPV measures, linear probability models

	Controlling			Emotional			Physical or Sexual		
Pooled Treatment	-0.07 (0.03)**	-0.07 (0.03)**	-0.07 (0.03)**	-0.04 (0.04)	-0.04 (0.03)	-0.04 (0.03)	-0.04 (0.04)	-0.06 (0.03)*	-0.06 (0.03)*
R^2	0.00	0.08	0.11	0.00	0.12	0.14	0.00	0.13	0.14
N	1,226	1,226	1,226	1,226	1,226	1,226	1,226	1,226	1,226
Mean of control group at endline	0.36	0.36	0.36	0.35	0.35	0.35	0.20	0.20	0.20
Basic controls		X	X		X	X		X	X
Extended controls			X			X			X

	Controlling			Emotional			Physical or Sexual		
Food Treatment	-0.06 (0.05)	-0.05 (0.05)	-0.06 (0.05)	-0.05 (0.05)	-0.04 (0.04)	-0.05 (0.04)	-0.06 (0.04)	-0.07 (0.04)*	-0.08 (0.04)*
Cash Treatment	-0.09 (0.04)**	-0.08 (0.04)**	-0.08 (0.04)**	-0.06 (0.04)	-0.06 (0.04)	-0.05 (0.04)	-0.04 (0.04)	-0.05 (0.04)	-0.05 (0.04)
Voucher Treatment	-0.06 (0.04)	-0.06 (0.04)	-0.06 (0.04)	-0.01 (0.04)	-0.03 (0.04)	-0.02 (0.04)	-0.04 (0.04)	-0.06 (0.04)*	-0.06 (0.04)
R^2	0.01	0.08	0.11	0.00	0.12	0.14	0.00	0.13	0.14
N	1,226	1,226	1,226	1,226	1,226	1,226	1,226	1,226	1,226
P-value: Food=Voucher	0.94	0.85	0.90	0.50	0.72	0.49	0.51	0.67	0.50
P-value: Cash=Voucher	0.36	0.52	0.53	0.19	0.41	0.40	0.96	0.72	0.84
P-value: Food=Cash	0.51	0.49	0.71	0.75	0.74	0.98	0.57	0.47	0.41
Basic controls		X	X		X	X		X	X
Extended controls			X			X			X

Standard errors in parenthesis clustered at the cluster level. * $p < 0.1$ ** $p < 0.05$; *** $p < 0.01$. Basic controls include baseline value of the outcome variable and dummy for province stratum. Extended controls include baseline female characteristics (whether the women is head of household, whether she is married, whether she has secondary education, whether she is Colombian, whether she is indigenous, whether she is afro-ecuadorian, whether she is employed, whether she owns the house, and her age); partner characteristics (whether partner has secondary education, his age); household characteristics (number of children 0-5 years, number of children 6-14 years, wealth quartiles); baseline value of outcome variable, and dummy for province stratum.

Table B.3: Lee bounds estimates

	Beta	Controlling		Beta	Emotional		Beta	Physical or sexual	
		Upper	Lower		Upper	Lower		Upper	Lower
Pooled Treatment	-0.07 (0.03)**	-0.06 (0.03)*	-0.08 (0.03)***	-0.04 (0.03)	-0.03 (0.03)	-0.06 (0.03)*	-0.06 (0.03)**	-0.06 (0.03)*	-0.08 (0.03)***
<i>N</i>	1,226	1,200	1,201	1,226	1,200	1,199	1,226	1,201	1,200
Pseudo R2	0.09	0.08	0.09	0.11	0.11	0.11	0.13	0.13	0.12
Mean of control group at endline	0.36	0.36	0.36	0.35	0.35	0.35	0.20	0.20	0.20
	Beta	Controlling		Beta	Emotional		Beta	Physical or sexual	
		Upper	Lower		Upper	Lower		Upper	Lower
Food Treatment	-0.06 (0.04)	-0.04 (0.05)	-0.10 (0.05)**	-0.05 (0.04)	-0.03 (0.04)	-0.09 (0.04)**	-0.08 (0.04)**	-0.07 (0.04)*	-0.13 (0.04)***
Cash Treatment	-0.08 (0.04)**	-0.08 (0.04)**	-0.08 (0.04)**	-0.05 (0.04)	-0.05 (0.04)	-0.06 (0.04)	-0.05 (0.03)	-0.05 (0.03)	-0.05 (0.03)
Voucher Treatment	-0.06 (0.03)*	-0.05 (0.03)	-0.08 (0.03)**	-0.02 (0.04)	-0.01 (0.04)	-0.03 (0.04)	-0.06 (0.03)*	-0.05 (0.03)	-0.07 (0.03)**
<i>N</i>	1,226	1,199	1,198	1,226	1,201	1,199	1,226	1,199	1,200
P-value: Food=Voucher	0.97	0.82	0.67	0.44	0.53	0.16	0.54	0.52	0.08
P-value: Cash=Voucher	0.56	0.42	0.98	0.40	0.26	0.47	0.87	0.90	0.52
P-value: Food=Cash	0.66	0.41	0.70	0.94	0.76	0.43	0.46	0.61	0.03

Standard errors in parenthesis clustered at the cluster level. * $p < 0.1$ ** $p < 0.05$; *** $p < 0.01$. All estimates include baseline female characteristics (whether the women is head of household, whether she is married, whether she has secondary education, whether she is Colombian, whether she is indigenous, whether she is afro-ecuadorian, whether she is employed, whether she owns the house, and her age); partner characteristics (whether partner has secondary education, his age); household characteristics (number of children 0-5 years, number of children 6-14 years, wealth quartiles); baseline value of outcome variable (when available), and dummy for province stratum.