Household level graduation strategies: The experience from Bangladesh

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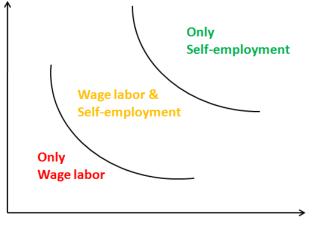
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Components of Targeting Ultra Poor (TUP) program

Component	Purpose
Integrated targeting methodologies	Effective targeting of the extreme poor
Income generating asset transfer	Build economic asset base
Training and regular refreshers	Ensure good return from asset
Technical follow-up of enterprise	Ensure good return from asset
Provision of inputs	Ensure good return from asset
Weekly stipends	Reduce opportunity cost
Health support	Reduce costly morbidity
Social development	Awareness of rights and justice
Mobilizing local elite support	Create an enabling environment

Affecting occupational choice





Assets

Description of data and methods

- Randomized control treatment design
- Randomization at branch level
- Two rounds of survey (2007 and 2009)

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- Randomized control treatment design
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- Sample description

Branch type	Treatment		Control	
Household type	STUP	Other	STUP	Other
		Ultra poor		Ultra poor
Baseline sample	4,206	4,278	3,193	4,904
Attrition rate (%)	6.59	4.89	8.83	6.73
Panel sample	3,919	4,066	2,900	4,562
Participant (in panel)	3,919	0	18	12
Number of branch	20			20
Number of spots	704			705

Checking balance in RCT

Variables	STUP	Other UP
Household size	0.02 (0.027)	0.03 (0.021)
Number of children	-0.01 (0.022)	-0.02 (0.019)
Working aged male	0.02 (0.028)	-0.03 (0.024)
Working aged female	0.02 (0.025)	-0.01 (0.025)
Child labor	0.02 (0.029)	0.02 (0.032)
Migrate	-0.01 (0.020)	-0.01 (0.013)
Disable member	0.00 (0.027)	-0.02 (0.027)
Female headed	-0.04 (0.034)	0.02 (0.037)
Head has no education	0.02 (0.037)	0.04 (0.039)
Head is an agri day labor	0.08 (0.033)**	0.03 (0.033)
Any woman work as maid	-0.07 (0.049)	-0.02 (0.051)
Any woman in day labor	-0.01 (0.082)	0.00 (0.085)
Any member engaged in begging	-0.05 (0.049)	0.14 (0.066)**
Muslim	0.05 (0.072)	0.05 (0.078)
Owns agri land	-0.02 (0.060)	0.02 (0.049)
Owns homestead land	-0.02 (0.032)	0.02 (0.031)
Has loan over 500 taka	-0.07 (0.055)	-0.07 (0.047)
Owns cow	0.04 (0.064)	0.04 (0.040)
Owns poultry	-0.06 (0.046)	-0.03 (0.038)
Owns goat	0.01 (0.046)	-0.01 (0.038)
Receives government benefit	0.02 (0.054)	-0.03 (0.061)
Any member in NGO	-0.08 (0.056)	-0.05 (0.054)
Constant	0.49 (0.124)***	0.40 (0.122)***
Observations	6,819	8,628
R-squared	0.032	0.021
F-statistics	4.00	2.13

Standard errors clustered at branch level

Impact on participant's economic activity

VARIABLES	Self-emp	Self-emp	Wage-emp	Wage-emp
	Hours	Per hour inc	Hours	Per hour inc
Treat	-3.661	-1.304	-63.806	0.201
(1=yes, 0=else)	(36.171)	(1.351)	(145.225)	(0.494)
Follow-up	112.144**	1.992	-167.155*	2.120***
(1=yes, 0=else)	(49.504)	(1.401)	(84.328)	(0.254)
Treat X Followup	545.782***	-0.434	-128.240	1.348***
	(68.569)	(1.656)	(102.077)	(0.425)
Constant	329.473***	5.427*	1,275.826***	6.312***
	(34.363)	(2.704)	(141.882)	(0.522)
Observations	13,638	9,673	13,638	7,230
R-squared	0.226	0.002	0.159	0.073

Impact on main earning activities

Impact variable	Treat X followup
Agri daylabor total hours	-50.626 (54.583)
Agri daylabor earning per hr	1.317 (0.526)**
Maid total hours	-71.150 (34.203)***
Main earning per hr	0.905 (0.550)**
Husbandry total hours	616.754 (47.281)***
Husbandry earning per hr	1.845 (0.754)**
Land cultivation hours	13.985 (6.507)**
Land cultivation earning per hour	-31.798 (25.840)

Impact on assets ownership

Impact variable	Treat X followup
Number of cow	1.211 (0.051)***
Number of poultry	0.734 (0.100)***
Number of goats	2.418 (0.382)***
Total value of livestock (2007 price)	11,145.216 (546.141)***
Owns a shed for livestock	0.547 (0.055)***
Whether owns a shop	0.010 (0.005)*
Owns cultivable land	0.014 (0.011)
Size of cultivable land	0.308 (0.188)
Whether cultivates others' land	0.080 (0.022)***
Size of rented land (decimal)	0.341 (0.282)
Size of mortgage land (decimal)	0.151 (0.078)*

Impact on financial assets

Impact variable	Treat X followup
Amount of saving at home	60.104 (33.557)*
Saving with BRAC	1,307.406 (72.620)***
Saving with other NGO	-67.033 (24.950)**
Whether has any loan	0.139 (0.035)***
Amount of loan outstanding	425.764 (503.324)
Whether has any lending	0.045 (0.012)***
Amount of money lent	478.983 (140.786)***

Impact on 'wellbeing'

Treat X followup
0.043 (0.019)**
0.036 (0.018)*
0.366 (0.071)***
0.163 (0.095)*
-0.194 (0.111)*
14.808 (7.602)*
10.649 (8.868)
384.122 (191.477)*

Where does the impact end?

Impact variable	Treat X followup
Enrolment rate (6-10 years old boys)	-0.041 (0.026)
Enrolment rate (11-15 years old boys)	0.047 (0.035)
Enrolment rate (6-10 years old girls)	-0.022 (0.036)
Enrolment rate (11-15 years old girls)	-0.030 (0.038)

Spillover effect on other ultra poor

Impact variable	Treat X followup
Total hours in wage employment	56.933 (29.990)**
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Per hour income from wage emp	0.785 (0.383)**
Per hour income from non-agri day labor	2.692 (1.399)*
Whether owns cow	-0.037 (0.020)*
Rears animal for sharing	0.057 (0.027)*

Change in average per capita annual income

