Intrahousehold Bargaining and Girls' Time Spent on Unpaid Domestic Work

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Outline

- 2 Conceptual framework
- 3 BALIKA program
- 4 Data
- 5 Estimation results
- 6 Conclusion

- Adolescent girls spend substantial amount of time on unpaid domestic work in rural Bangladesh fig1
- Differences in time spent in school and on unpaid domestic work by marital status
- Research question: Does empowering girls reduce their time spent on unpaid domestic work?
- Time spent on unpaid domestic work
 Husband and wife in household bargaining model
 Mainly in developed countries

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Conceptual framwork

 Intrahousehold bargaining (Manser and Brown 1980; McElroy and Horney 1981)

$$N = [U^g - V^g(\alpha^g)][U^o - V^o(\alpha^o)]$$

where α^i is threat point, anything that affects i's bargaining position in the household

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BALIKA program

- Empowerment program: Bangladesh Association for Life Skills, Income, and Knowledge for Adolescents (BALIKA)
 - Three districts in rural southern Bangladesh fig3
 - ™ Target over 12,000 adolescent girls aged 12–19
 - RCT: Three different treatment arms in each 24 clusters



- ™ Timeline ▶ fig5
- Main impacts: All three arms similarly delayed girls' age a marriage (Amin et al. 2018).

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Data

- 10 time-use activities and girls' and households' socioeconomic characteristics are balanced at baseline

Data

- Time-use data on adolescent girls fg1
 □ Diary over 30 activities in the previous day of the interview
 - Similar collecting procedure as in ATUS
- 10 time-use activities and girls' and households' socioeconomic characteristics are balanced at baseline

Estimation results

- Main results Fig6
- Heterogeneity
 - Mainly from unmarried girls at baseline
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- Heterogeneity
 - Mainly from unmarried girls at baseline
 - Increase in time spent on unpaid domestic work for (baseline) married girls in the education arm

- Differential impacts on gender-awareness outcomes across treatment arms • fig7
 - Girls in gender-awareness and livelihood arms more agreed to the statement "Men and women should be equally treated"
 - "Wives should obey husbands" and "Women don't have right to divorce"
 - Patriarchal gender norm and mobility matter in girls' time spent on unpaid domestic work fig8
- Schooling and learning are distinct concepts in South Asia
 Schooling signifies girls' status and may serve as a signal of being a good wife and mother
- The most important trait in the marriage market is obedience to one's husband in rural Bangladesh (Buchmann et al. 2023)

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Attrition

- No selective attrition between treatment and control groups
- Lee's (2009) bound is consistent with the findings, i.e., differential impacts on education and gender-awareness&livelihood arms on girls' time spent on unpaid domestic work
 - Moreover, girls in education arm *increased* time spent in unpaid domestic work when attrition is taken into account

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Conclusion

- Reducing the burden of unpaid domestic work on girls is important
- Empowering girls in gender-awareness and income-earning is effective to reduce their time spent on unpaid domestic work
- Education&schooling is not effective (or even increases reducing their time spent on unpaid domestic work
 Schooling is to make a good wife&mother in rural Bangladesh?

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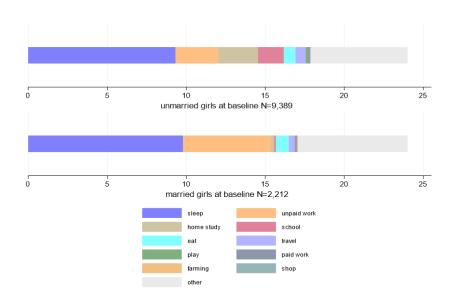
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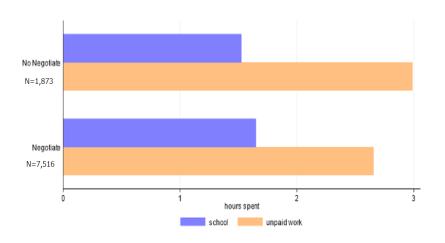
References

- Amin, Sajeda, J. S. Saha, and J. A. Ahmed. 2018. "Skills-Building Programs to Reduce Child Marriage in Bangladesh: A Randomized Controlled Trial." *Journal* of Adolescent Health 63 (3): 293–300
- Buchmann, Nina, Erica Field, Rachel Glennerster, Shahana Nazneen, and Xiao Yu Wang. 2023. "A Signal to End Child Marriage: Theory and Experimental Evidence from Bangladesh." American Economic Review 113 (10): 2645–88
- Lundberg, Shelly, and Robert A. Pollak. 1993. "Separate Spheres Bargaining and the Marriage Market." Journal of Political Economy 101 (6): 988–1010
- —. 1994. "Noncooperative Bargaining Models of Marriage." American Economic Review 84 (2): 132–37
- Manser, Marilyn, and Murray Brown. 1980. "Marriage and Household Decision-Making: A Bargaining Analysis." International Economic Review 21 (1): 31–4
- McElroy, Marjorie B., and Mary Jean Horney. 1981. "Nash-Bargained Household Decisions: Toward a Generalization of the Theory of Demand." International Economic Review 22 (2): 333–49

be back be back. Time allocation in the previous day (24 hours) of the baseline interview



Time-use patterns by whether they can disagree with their parents(unmarried girls at baseline only)



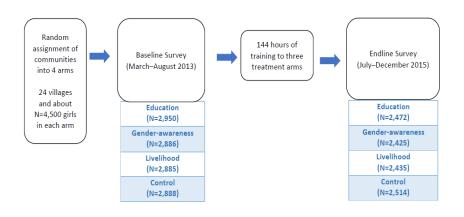
▶ go back BALIKA location



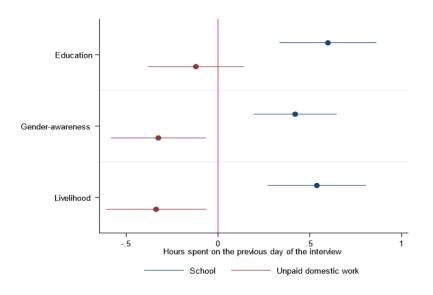
Specific skill-training in three treatment arms

Common component (44 hours) Basic life-skill training, ICT support, Community awareness training		
Specific component (100 hours each)		
Education	Gender-awareness	Livelihood
School-going girls: Mathematics and English to prepare for mandatory examinations	Negotiation, critical thinking, and decision-making skills by discussing gender roles, family power dynamics, and gender-based division of labor	25 hours on computing, 13 hours on mobile phone applications, 30 hours on photography, 17 hours on health screening, and 15 hours on entrepreneurship
Out-of-school girls: Financial skills and communicative English		Information on locally available and nontraditional female occupations

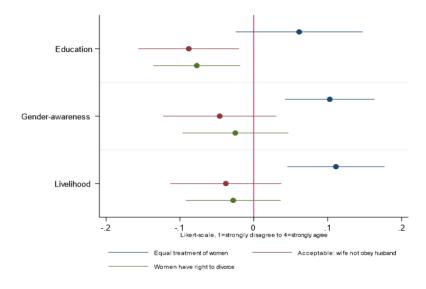
Periodic States Timeline of BALIKA skill trainings and surveys



Treatment effects on time spent in school and on unpaid domestic work



Pgo back Treatment effects on gender-awareness outcomes



Time-use patterns by gender norm, mobility, household wealth at baseline

