
Received: 2022-12-01 Revised: 2023-02-09 Accepted: 2023-03-11 Published: 2023-04-05

Women's Collective Model Approach in Resource Distribution

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ABSTRACT

This study was conducted in Kabwe city of Zambia during June to August 2017. The city was divided into three zones – more developed, medium developed and backward. From each zone one area, i.e., Highridge, Katundo and Makululu, respectively, was selected. The purpose of study was to know the impact of intra-household resource distribution on woman's bargaining power. Logit model was used to find out the relationship between dependent and independent variables. The study revealed positive impact of age and education on bargaining power of woman in the household. Asset ownership also had significant impact on the bargaining power of woman. The study recommended to constitute a new higher education policy to encourage women to pursue higher education and to reduce drop-outs. It is also recommended that the women should be made owners of assets in the household through legislation.

Keywords: Autonomy; Education; Ownership of Assets.

INTRODUCTION

Important decisions that affect economic development outcomes take place at the household level, including fertility decisions, education of children, labor force participation and production activities at various agricultural and nonagricultural household enterprises [1]. The aspects of intrahousehold resource allocation issues are of potential importance for policy makers for two reasons. First, paying attention to the individual-level welfare, rather than the household-level welfare, may affect the policy makers' views about who and where the poor are. There is possibility, for example, that some households whose average per capita incomes/expenditures are above the poverty line may still contain household members whose standard of living actually falls below the poverty line due to intra-household inequality in

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resource allocation [2]. Second, the way household members allocate resources among themselves could potentially affect the effectiveness of policy interventions and may even lead to unintended consequences for policy makers.

While neo-classical economic theory has long dealt with social collectivities – firms and households, in particular – it tended to treat them as individual decision-making units, whose internal relations were not part of the economic explanandum. Household behavior was depicted by the behavior of individuals in their capacity as either consumers (the demand for goods and services) or workers (suppliers of labor). This was rectified with the emergence of the “new household economics”, whose contribution was to integrate the production and consumption aspects of the household economy and extend maximization principles to its internal workings [3]. The idea that the household represents a locus of economic activity dates back to Chayanov’s study of Russian peasants, first published in 1926. However, the economics of the family and the household was fully brought into the mainstream by Gary Becker, the 1992 Nobel Prize winner in economics, in the mid-1960s [4]. The essence of Becker’s approach was that, in accordance with a single set of preferences, the household combines time, goods purchased in the market, and goods produced at home to produce commodities that generate utility for the household. Most economists have shared this view of the household. Though this approach originates in standard demand analysis, it has been extended to include the determinants of education, health, fertility, child fostering, migration, labor supply, home production, land tenure and crop adoption. Such models are called as “unitary approach” [5]. The unitary approach is also referred to as the “common preferences” model, the “altruism” model, or the “benevolent dictator” model. In the unitary model of the household all members have the same preferences. There is no bargaining process and hence there is no correlation between household expenditures, financial outcomes and who makes the household decisions. Pareto efficiency is reached in these models.

More recently, this model of unitary decision making has been rejected by a number of studies and replaced by nonunitary models [6]; [7]. In the non-unitary models of the household, it is assumed that each household member has a different utility function and therefore has different preferences. A bargaining process takes place within the household and decisions are made according to each member’s bargaining power. In these non-unitary models of the household, two factors determine household consumption and expenditures, i.e., each household member’s bargaining power and their preferences. The outcome of these bargaining process therefore varies depending on who makes the decisions. The bargaining power depends on the relative income that each partner or household member contributes to the household income. If one partner earns a higher income or receives a positive income shock, this increases their bargaining power and hence the bargaining process within the household will change in their favor. The control over resources leads to control over decisions [8]. The non-unitary models are called as “collective” models.

The collective approach to the household can be subdivided into two broad categories: those models that rely on cooperative solutions to bargaining among individuals and those that rely on non-cooperative game theory. The cooperative approach begins by noting that individuals form a household when the benefits associated with doing so exceed those obtainable from remaining alone. Broadly speaking there are two types of cooperative approaches. Models that rely on cooperative solutions to bargaining among individuals suppose only that household decisions are always efficient in the Pareto sense [9]; [10]. Whereas, the

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second category of cooperative models represent household allocations as the outcome of some specific bargaining process and applying to this framework the tools of game theory; [11].

In contrast to cooperative models, the non-cooperative approach does not assume that members necessarily enter into binding and enforceable contracts with each other. They assume that individuals within the household not only have differing preferences but also act as autonomous subeconomies. There are four determinants of bargaining power inside a household. They are control over resources, influences that can impact the bargaining process, interpersonal net works, and basic attitudinal attributes. These resources can be assets, unearned income, transfer payment or welfare receipts. They also explain factors that can influence the bargaining process, such as legal rights, skills and knowledge, education, etc. Self esteem, selfconfidence and emotional satisfaction are attributed to effect bargaining power. There are also other attempts to increase empowerment, such as, legal awareness, political participation and the use of contraceptives.

This study follows the collective non-cooperative model approach to find out the impact of intra-household resources distribution on woman's bargaining power.

Intra-household in-equality in resource distribution is the result of in-equalities in power positions within the household. The factors that affect a woman's bargaining power relate to material and social resources, marital institutions and the agency dimension [12]. Resource dimension includes economic, human as well as social resources [13]. The economic resources are important for women's bargaining power [14]; [15]. The ownership of current assets as a bargaining power indicator is used in various studies and are positively associated with food expenditure [16] and better reproduction decisions [17]. Sons are associated with increasing woman's bargaining position and are important in certain welfare outcomes, such as, a reduction in domestic violence within marriage [18]. A woman's education affects her ownership of health insurance [19]; her nutrient intake [20]; relative reproductive health [21], her ability to negotiate the timing and conditions of sex with partners [22]. The empowerment of women has become an important goal of development policy [23]. The SDGs put great emphasis on equal opportunities for girls and women and on their empowerment. Increasing the resources controlled by women within the household will improve the education and nutrition of children as well as increase spending on long term durable goods . Increased income has an effect on the outcome of the decision process, but also emphasized that information and communication are important for the outcomes of the intra-household decision making [24]. The policy makers expect that women's bargaining power will affect key development outcomes such as the health and education of children and the well-being of the women themselves. Women's bargaining power may affect decisions within the household that impact household production, such as the allocation of labor across various activities, including household chores, agricultural work and wage work. The women's empowerment on the basis of who has the final say on healthcare, large and small household expenditures. Women's bargaining power meant on decision making of four factors: own health; daily household needs, large household purchases and visits to family and relatives. Land ownership reduces women's experiences of domestic violence in India. They used the ownership of land and housing as a measure of bargaining power in India. A broader range of assets was considered moving beyond physical assets to include social networks to examine the impacts on household outcomes and women's well-being. Participation in micro credit projects as a measure of bargaining power and considered its effect on land and asset ownership. Whether the mother's first child was a boy and whether she ever gave birth to boy was used as a measure of bargaining

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 power in China [3]. They found that these measures have a positive impact on women's nutrition intake and health outcomes.

Many empirical studies revealed that women's bargaining power in households is that women derive bargaining power from having resources such as income and assets. Compared to all male property rights, joint property ownership of land and houses improved women's decision making power, their self-confidence and reduced domestic violence [13]. Although women's earnings have a positive impact on their bargaining position, having a relatively good education compared to their partners appears to have a stronger positive impact.

The specific objectives of study are to: 1. Know the impact of education of woman on making consumption allocation decision (bargaining power) in the household. 2. Find out the impact of age, gender, education and income on the asset ownership (bargaining power) of woman. 3. Investigate the impact of asset ownership of woman on gender based violence in household. 4. Research the relationship between asset ownership of woman and the autonomy to travel alone. 5. Investigate the impact of education on the ability of woman to make a decision on the number of children.

RESEARCH METHOD

This study was carried out in Kabwe city of Zambia during August and September, 2017. Kabwe city was divided into three zones depending on the level of development – more developed; medium developed and backward. Highridge area was selected from the developed zone; Katondo area was from the medium developed zone and Makululu area from the backward zone. A sample of 50 households from each area, thus a total of 150 households, were selected randomly. Linear probability model was used to know the factors impacting on the asset ownership of woman, which was treated as the bargaining power of woman in the household. The binary logit model was used to find out the impact of age structure of woman on making consumption allocation decisions, which was treated as the bargaining power of woman in the household. Logit model was used to find out the relationship between asset ownership of woman and gender violence & autonomy to travel alone. Asset ownership of woman was taken as independent variable and gender violence & autonomy to travel alone was treated as dependent variables. The data were analysed and the results brought out. The policy conclusions were drawn on the basis of the results.

RESULTS AND DISCUSSIONS

Table 1. Level of Education of the Heads of the Households

Level of Education of the head of Household	Frequency	Percentage	Cumulative
Primary	28	18.67	18.67
Secondary	54	36	54.67
Tertiary	56	27.33	92

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Illiterate	12	8	100
Total	150	100	100

The table 1 shows that out of 150 heads of households 28 (18.67%) studied up to primary level, 54 (36%) studied up to secondary level, 56 (37.33%) studied up to tertiary level and the number of illiterates was 12 (8%)..

Table 2. shows the profession of the heads of the households

Profession of the head of household	Frequency	Percentage	Cumulative
Government	37	24.66	24.66
Private	33	22	46.66
Self-employed	67	44.66	91.32
None	13	8.66	8.66
Total	150	100	100

Table 4 shows that out of 150 heads of the households 37 (24.66%) were in the government service, 33 (22%) were in the private sector, 67 (44.66%) were the self-employed and 13 (8.66%) heads of the household do not work.

Table 3. Details of the Heads of Households

Gender of Head of Household	Frequency	Percentage	Cumulative
Male	114	76	76
Famale	36	24	100
Total	150	100	100

Table 3 shows that out of 150 sample heads of the households, 114 were male and 36 were female. In percentage terms, they were 76% and 24% respectively.

Table 4. Age Composition of the Heads of the Household

Age group of the head of household	Frequency	Percentage	Cumulative
18-25	6	4	4
26-35	50	33.33	37.33
36>	94	62.67	100
Total	150	100	100

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The table 4 shows that there were 6 heads of households (4%) in the age group of 18-25 years, 50 heads of households (33.33%) in the age group of 26-35 years, and 94 heads of the households were in the age group of above 36 years.

Table 5. Impact of Asset Ownership of Woman on Autonomy to Travel Alone.

VARIABLES	Odds ratio
Autonomy assets ownership	0.949 (0.442)
Constant	1 (0.426)
Observations	137

Standard error in parentheses.

*** p<0.01, ** p<0.05, * p<0.1.

Table 5 shows that the asset ownership of a woman has no impact on the autonomy to travel alone. The model shows that the ownership of assets by a woman does not influence the ability of a woman to travel alone.

Table 6. Impact of Education on Bargaining Power of Woman on Number of Children.

VARIABLES	Logit ratio
Secondary	2.143 (1.043)
Tertiary	4.038*** (2.009)
No education	0.850 (0.621)
Constant	0.588 (0.234)
Observations	145

Standard Errors in parentheses.

*** p<0.01, ** p<0.05, * p<0.1 (shows variable significant at the given levels)

The table 6 looks at the effect of education on the ability of a woman to make a decision on the number of children. The results suggest that only having tertiary education is a significant factor when deciding on the number of children by the woman. A woman with tertiary education is four times more likely to have an influence on the number of children than compared to a woman with primary education only.

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CONCLUSIONS

The study concluded that there is positive impact of age on the bargaining power of woman in the household. A woman aged between 26-35 years has more decision power in the consumption allocation than a woman aged 18-25 years. The study revealed that a woman who has tertiary level of education has more decision making power than others. The asset ownership of woman has impact on decision power in the household. These results are in conformity with the results of the study by Dercon (2002) and Doss (1997). The asset ownership of woman (bargaining power) is positively affected by the income of the household. This supports the outcome of the studies by Agarwal (1994); Kabeer (1999); and Quisumbing (2003).

The asset ownership is a significant factor in determining gender-based violence. A woman who owns any form of assets is more likely not to experience gender-based violence compared to a woman without ownership of assets. This confirms the results of the study by Panda and Agarwal (2005) and Datta (2006).

This study found that the asset ownership of a woman has no impact on the autonomy to travel alone. The study revealed that having tertiary education is a significant factor in deciding on the number of children by a woman (bargaining power). This confirms the results of the study by Jejobhoy (1995); Maitra (2003) and Wolff (2000).

The study made the following recommendations.

1. Since the tertiary education had positive impact on the bargaining power of woman, a new higher education policy should be constituted in Zambia to encourage women to pursue higher education and to reduce dropouts to improve gender-equality. The legislation on prohibition of early marriages should be strictly implemented to reduce drop-outs.
2. Asset ownership of woman had positive impact on the bargaining power of woman in the household. The Woman Organizations should educate the women on the importance of ownership of assets to increase their bargaining power to reduce gender-gap. The Government can also make legislation to make women owners of assets in the household.
3. Income had positive impact on bargaining power of woman in the household. The woman should participate in income-generating activities to increase her income. The Government should prepare a policy in which reservation could be provided to women the implementation of all its programs of poverty eradication.
4. Education had positive impact on the ability of woman to make decision on number of children. To control population growth women should be educated. Reservation of seats for girls and women should be given at all levels of education system.

ACKNOWLEDGEMENTS

Received: 2022-12-01 Revised: 2023-02-09 Accepted: 2023-03-11 Published: 2023-04-05

Please acknowledge collaborators or anyone who has helped with the paper at the end of the text.

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