Female Labour Force Status and Fertility Behaviour – Some Theoretical, Methodological and Policy Issues

RAFIQUL HUDA CHAUDHURY*

INTRODUCTION

The status of women and their role in community and family decision-making, including timing and number of births and choice of contraception, have an important bearing on improving the standard of living, success of family planning and long-term reduction in fertility of a country. In a society, whose women depend on their children for social and economic security and lack legitimate alternatives to childbearing, fertility is likely to be high. Mandelbaum [34] summarised a number of studies relating to fertility and motivation in Indian society. The most commonly reported reason for desiring large families was the absence of alternative roles for women to the role of wife-mother. This absence of alternative roles for women has often been suggested as a stumbling block to diffusion of small family size norm in developing countries [56; 37]. For effective reduction of population growth, the proponents of the 'beyond family planning approach' emphasize the complementarity of the roles of men and women, creation of alternatives to childbearing and reduction of dependence on children by providing educational opportunity and economic independence for women [56; 2; 3; 15; 28]. Of particular interest is the nature of relationship between female education, labour force participation and conjugal role of women on the one hand and fertility and the use of contraception on the other. In this study, an attempt is made to examine the dynamics of the relationship between female labour force status and fertility behaviour (i.e. use of contraception and fertility) and also to evaluate the implication of the relationship for reduction of fertility, particularly with reference to the developing countries of the world.

*The author is a Senior Research Demographer at Bangladesh Institute of Development Studies. The author expresses his thanks to the Co-Editor and an anonymous referee of The Pakistan Development Review for their comments on an earlier draft of this paper. The author is also thankful to Dr. Helen Ware, Research Fellow, in the Department of Demography, Australian National University, for her comments and editing of the manuscript.
FEMALE LABOUR FORCE STATUS AND FERTILITY BEHAVIOUR

Female participation in the labour force has often been considered one of the means to promote use of contraception and thereby to reduce fertility. This hypothesis is based on the following assumptions:

(i) employment outside the home provides alternative satisfactions to children such as companionship, recreation, stimulation, creative activity and social and economic rewards. These alternative activities for working women may compete with their raising of children [1; 2; 12; 25; 28; 30];

(ii) work outside the home delays marriage and also increases the probability of non-marriage for some women because of enhanced economic self-sufficiency [10; 17; 56]. Raising the age at marriage and the proportion remaining single have a depressing effect on fertility;

(iii) every additional child increases the 'opportunity cost' of a working mother in terms of the income foregone by her because of her having to stay at home to raise children. This 'indirect cost' or 'opportunity cost' has a negative bearing on the decision of a working wife to have an additional child [2];

(iv) a working wife, being an earning member of the family, improves her status and finds a greater opportunity to participate in family decision-making, and this also facilitates husband-wife communication. Various studies have shown that the higher the joint husband-wife participation in family decision-making the greater the use of contraception and the lower the fertility [11; 19; 37; 44; 57]; and

(v) working women by attaining economic independence do not have to depend on their children for economic security in old age.

On the basis of the above assumptions, it is hypothesized that female participation in labour force will be inversely related to fertility and positively related to the use of contraception. Convinced of the plausibility of the work-fertility hypothesis, many population scientists have advocated wider female labour force participation as a means of reduction of fertility, particularly for the developing countries of the world. This concern is well expressed in the following words: 'Policies expressly related to family roles, and opportunities for legitimate alternative satisfaction and activities constitute the crux of future reduction in family size because they directly assault the motivational framework of reproduction' [2], and '...better employment prospects and enhanced status in a changing society may be a sufficient condition for fertility reduction ...' [6]. However, the relationship between work status of a woman and fertility is very complex and the empirical findings are inconclusive [20; 35; 47; 22; 36; 23; 8; 49; 28; 57]. These inconclusive findings are partly due to differences in study designs, sources of data, and the various measurement instruments and partly due to complexities in the relationship between labour force participation and fertility. Here, we have tried to address ourselves to a few of these complexities both (a) Theoretical and (b) Methodological.

THEORETICAL COMPLEXITIES

Female labour force participation per se does not determine fertility behaviour for the effect of work on fertility is itself dependent on such factors as (i) the setting of work; (ii) the type of work; (iii) the motivation for working; (iv) role incompatibility; (v) work commitment; (vi) duration of work; (vii) child-care facilities; (viii) type of family; and (ix) the life-cycle stage. How each of the above factors interacts with the relationship between work status and fertility is discussed below.

Setting of Work and Fertility

It is often found that the fertility of unpaid family workers engaged in cottage industries or of women engaged in agricultural activities in the rural areas is higher than, or does not differ significantly from, the fertility of non-working women. But women working in the modernized sector of the economy in urban areas, particularly in big metropolises and industrial cities, have lower fertility than their non-working counterparts [22; 23; 49; 50; 26; 45]. The failure to find a smaller number of children among women working in cottage industries or on family farms in rural areas may be due to the fact that the roles of such working females as women are not incompatible with their role as mothers because they do not work completely outside the environment of home and, therefore, can combine their productive activities with child-rearing. Moreover, those who work in family enterprises may receive support from their parents or other family surrogates in raising young children and looking after other domestic chores. Child-rearing is not, therefore, a constraint for this group of women. Participation in the modernized sector of the economy in urban areas calls for greater separation of work from home. Moreover, availability of support from parents and relatives is also rarer in urban areas. Therefore, role incompatibility is greater among women working in the modern sector of the economy in the urban areas than among those women who work in the traditional sector of the economy, like cottage industries, trading in village markets and family farm in rural areas.

This variation in role incompatibility may explain the lower fertility of those women who work in the modern sector of the economy in the urban areas and the higher fertility among those women who work in the traditional sector of the economy. However, there may be other important factors explaining the difference in the fertility of the above two groups of working women. For example, social and economic aspirations, attitudes and education background of the women working in...
the modern sector of the economy in the urban areas may be different from those of
the women working in the traditional sector of the economy in the rural areas.
Urban centres are considered the citadel of new ideas while rural areas are bound by
tradition. Therefore, it is not only the higher role incompatibility of urban working
women which induces them to lower their fertility but their attitudes, social and
economic aspirations and educational background may be equally important factors
in the dynamics of work/fertility relationship in the urban and rural sectors of the
economy which needs to be further investigated.

From the above discussions, one may draw the following tentative conclusions:
that there would be an inverse relationship between work status and fertility in the
modern sector of the economy but the relationship may be either positive or non-
existent in the case of participation in the traditional sectors of the economy.
However, female participation in the modernized sector of the economy does not
necessarily lead to greater use of contraception and lower fertility, particularly in
situations where a working woman lacks commitment to work [48], belongs to an
extended family [5; 39; 49; 50], and originates from a poor socio-economic back-
ground [11; 29; 59]. Work/fertility relationship in each of the above situations will
be discussed elaborately below.

Work Commitment and Fertility

The relationship between work status and fertility varies with the degree of
work commitment. Among a section of urban Greek working women, Rothschild
[48] found that fertility and use of contraception of working women with low work
commitment, participating in the modern sector of the economy, did not differ
from those of women who did not work. But women with high work commitment
had lower fertility and used contraception more frequently in comparison with those
women who worked with low work commitment or had not worked. However, the
degree of commitment to work varied with education and occupation. (A detailed
discussion of interaction among degree of work commitment, education and occupa-
tion and their effect on fertility is outlined below in the section on “Work Status,
Social Class and Fertility”.)

Work, Family Type and Fertility

Relationship between participation in the modernized sector of the economy and
fertility may also vary with family type. The relationship between work status
and fertility is usually found to be inverse in the nuclear families but positive in
extended families [5; 39; 49; 50]. This may be because
(i) there are adult relatives in extended families, who can look after children
and other domestic chores so that working women belonging to extended
families may not find a major constraint on combining their productive
role with their child-bearing role; but child-care responsibilities in
nuclear families are mainly of the mother and therefore a working
woman belonging to a nuclear family may find it difficult to combine the
roles of mother and worker;
(ii) the work commitment of the female workers living in extended families
may have little consequence for their family size, as they may have
been motivated to work outside the home in order to escape the tensions
and conflicts arising from living in extended families; and
(iii) women belonging to extended families may be under pressure from
parents-in-law to produce more children. In a traditional extended
family system, the status of a daughter-in-law is subordinate to her
mother-in-law and/or other elder members of the family.

In the above set-up, the young bride has very little independent role in fertility
decision. This lack of independent control over fertility decision and submission to
parental control on the part of the young bride is considered to be one of the reasons
for higher fertility in extended families because parents want to enforce traditional
high fertility norm for various economic and non-economic reasons [14; 51; 33; 4;
41; 52]. But couples in nuclear families have fewer obligations to their original line-
ages and also have fewer expectations from them and therefore they are under less
pressure to oblige the expectation of the high fertility norm prevailing in the
traditional extended families and are relatively more free to choose their own family
size.

However, these explanations are not sufficient to convince one that fertility
of working women would be always higher in extended families and lower in nuclear
families. There may be circumstances in which a working woman belonging to
nuclear family may have higher fertility if she has grown-up children and/or easily
available domestic servants to look after the young children, as is often the case
for middle-class women in developing countries [9]. Therefore, the relationship
between work status and fertility by family type should be studied after controlling
other intervening variables which may have affected the above relationship.
Attempts should also be made to dissect the fertility of working and non-working
women by family type.

Work, Economic Independence and Fertility

The findings of a positive or no relationship between work status and fertility
among unpaid family workers in cottage industries and family farm do not necessarily
prove that the effect of work on fertility is either positive or zero in the traditional
sector of the economy. The observed relationships in the traditional sector of the
economy may have arisen out of the absence of payment or the lack of economic
independence of the unpaid family labourers. If women were paid for their work,
they would have possibly produced fewer children. An example of this may be
found in the case of the People's Republic of China where women work in the traditional sector of the economy, viz. agriculture, but they are paid equally with men for the same kind of work and have relatively small numbers of children [55]. In the Chinese system, since the wage is directly paid to the labourer, women receive compensation for their labour, can depend on themselves for food and clothing, and, for other economic necessities, do not have to depend on their husbands. This economic independence of the married woman also raises her status in the family and her opportunity to participate in family decision-making. Women in China, along with men, also participate in community decision-making, including family planning, and timing and number of children [27]. The economic independence of a married woman and her participation in community and family decision-making including timing and number of births, may have played a significant role in the decline of Chinese fertility. However, female emancipation in China is tied up with profound social and political changes. Therefore, the effect of economic independence of women on fertility is difficult to isolate from the effect of ideological and organizational changes on fertility decline in China. The social and political changes which took place in China may be difficult to achieve in other developing countries without major institutional changes.

Work Status, Social Class and Fertility

The relationship between work status and fertility also varies with the type of occupation and social class. Lower fertility is more pronounced among the higher occupation and education groups than among lower occupation (blue collar/traditional) and education groups [29; 59]. This differential relationship between work status and fertility by social class, i.e. occupation and education group, is usually attributed to variation in (i) motivation to work; (ii) work commitment; and (iii) role incompatibility. Perceived role conflict is expected to be more prominent among the higher occupation and education groups than among lower occupation and education groups because work commitment, and social and economic rewards are expected to be higher among the former groups than among the latter groups. Women belonging to higher occupation and education groups usually originate from higher income families and they accept jobs outside the home of their own volition unlike those women belonging to lower occupation and education groups who accept job mainly because of economic necessity, as they belong to poor income families. 2

Women who work mainly for economic necessities may find work outside the home an undesirable obstacle to spending time with children and therefore it may not be inconvenient for them to combine the roles of a mother and a worker. A recent UN report on the status of women and family planning maintains that if employment is economically essential and if the rewards for work are not sufficiently attractive, women may more readily sacrifice their jobs in order to bear and raise children than forgo child-bearing [56].

The ‘opportunity cost’ of having an additional child is likely to be higher among working women belonging to upper echelon of occupation and education groups since the former derive greater economic and social benefit. However, ‘opportunity cost’ of having an additional child may not necessarily be higher in the upper social class. It may vary from individual to individual. A woman even belonging to lower occupation and social class might have a higher ‘opportunity cost’ if she is working out of sheer necessity and is adding the needed money to her family income than a woman of a higher occupation group who is working out of her own volition. Therefore, economic necessities may also compel a woman to work and restrict her fertility.

From the preceding findings and interpretations, it appears that if women's employment is to affect fertility significantly, it must be socially valued and rewarded as highly as child-bearing. When a job is creative and demand skills that are achieved at high cost and provide women sufficient salary and a status equal to that of men, women may develop a career orientation and commitment to work. Because of the career orientation they may like to have smaller families and even to space their children at longer intervals.

The findings of the negative effect of non-familial activities on fertility among higher socio-economic groups are not conclusive. There are some other studies which show greater effect of work status on fertility among women of lower socio-economic status than among those of higher socio-economic status [11; 32; 53].

A highly educated woman has a much higher ‘opportunity cost’ (i.e. earnings that the woman might have had, but had to forgo because of the need to care for her children) for the following reasons: (i) she gives up more working time since the better educated she is the more likely she is to be working; and (ii) she sacrifices higher wages by having a child. This is also demonstrated in a study by Espenshade [18]. Espenshade, employing data of the U.S.A., estimated how much the first child would cost to mothers, having varying levels of education, in lost earnings over the first 15 years of that child's life. According to the above estimate, the positive relationship between level of education and 'opportunity cost' increases as the level of education goes up. For example, estimated 'opportunity cost' rises from $ 26,562 for wives with only an elementary school education to $ 54,347 for those who have attained University education. An earlier study in the U.S.A. also confirmed the positive relationship between level of education and 'opportunity cost' in having a child [42]. However, a little caution is necessary: although there exists a positive relationship between level of education and 'opportunity cost' in having a child, its magnitude may vary from country to country, depending on, among other factors, the level of economic development of a country, the life style of the people, etc.
For example, Chaudhury [7; 10] has examined the relationship between female labour force status and fertility by employing data collected in the course of a socio-economic survey of working versus non-working women in 1974. The working women were defined as those women who had been gainfully occupied outside their home and non-working women were those who had never been gainfully employed outside the home but had the same general level of education as those of working women. There were 582 working and 548 non-working women all of whom were currently married, living with their husbands and reported to be fecund. Analysing the data, Chaudhury found no variation in fertility and the use of contraception by work status at higher levels of education but fertility and the use of contraception were found to vary with work status at the lower levels of education. A working woman who is illiterate or who has only had limited formal education has fewer children and uses contraception more frequently than her counterpart who is not working. But at higher education levels, women have fewer children and practise contraception more frequently irrespective of whether they are working outside the home or not. Utilizing the same data, Chaudhury examined the differences in the use of contraception between working and non-working women by income of husband. He found no difference in the use of contraception between working and non-working women in the higher income categories, although the use of contraception varies by work status in the lower income categories. The above findings have led some to believe that if work is to affect fertility behaviour, it is more likely to reduce the fertility of those women who belong to lower socio-economic group than of those who are in the higher socio-economic group because work outside the home possibly provides the only alternative satisfaction to children for the former group but work is only one of the several other alternative satisfactions to children for the latter group. From the above findings and interpretations, one may also tend to hypothesize that given employment opportunities outside the home, reduction in fertility is also possible among women of lower socio-economic status.

Duration of Work and Fertility

The negative effect of work on fertility also depends on the duration of work. It is plausible to argue that a woman who works for a larger proportion of her reproductive life is likely to develop more interests in extra-familial activities or become more career-oriented than a woman who works for a brief period of time. Moreover, market earning potential of a working woman rises with her work experience [46]. This hypothesis is also confirmed by data drawn from different countries [11; 32; 43; 59]. However, an exception to this hypothesis may arise in a situation where a woman joins labour force after having several births.
Relationship Between Historical Decline in Fertility and Female Participation in Labour Force

Last, but not the least, one may be very much tempted to ask whether it is necessary that a country must employ a certain proportion of its female population in the non-agricultural labour force in order to induce an appreciable decline in the fertility of that country? The answer is probably no, as one finds that an appreciable decline in fertility took place in the West and North Europe in the 19th Century without a significant female participation in non-agricultural activities. Female participation in non-agricultural activities as a necessary pre-condition for inducing an appreciable decline in fertility is also contradicted by the findings of Demeny [16] who reports a trend of raising one-child families in the rural areas of Hungary in the 18th Century.

In addition to the above-mentioned theoretical issues regarding work/fertility hypothesis, there still remain many thorny methodological issues in explaining the relationship between work status and fertility. These methodological issues are discussed below.

METHODOLOGICAL ISSUES

Fertility Status

It is often found that the working women have a higher incidence of fecundity impairment than non-working women [20; 48], and this differential fecundity status may in part account for differential fertility between working and non-working women. Thus, fecundity status has to be duly considered while examining the relationship between female labour force status and fertility.

Is it Work That Affects Fertility or Fertility That Affects Work?

A question may be raised whether it is work that causes working women to have fewer children or whether they work because they have fewer children? Similarly, work experience is often found to be positively associated with spacing. But the question is: Why is this so? Is it because some women work for a longer time because their children are born at longer intervals or is it that they space children at longer intervals in order to be able to work? The relationship can operate in both directions. This cause-and-effect problem has to be resolved while examining the relationship between work status and fertility.

Recruitment Bias/Work Conditions

It is often alleged that employment agencies or employers prefer to recruit women who have relatively few children and discourage pregnancy and/or adopt punitive measures against working women having babies while in employment. Under these conditions, a working woman is likely to have fewer children than a non-working woman. The net effect of work on fertility cannot, therefore, be isolated.

Temporal Alignment

Sometimes, a wife's current labour force status is related to her cumulated fertility, which is a measure of past events. But this is misleading and can also produce a distorted picture. To avoid this problem, the measures of labour force participation and fertility have to be aligned in time.

Motives for Non-Working Women

Why do some women not work? Is it because they have too many children? Or, is it that their pregnancies have followed one another so quickly that they have been prevented from working when they would have actually preferred to enter into labour force? Or, is there a lack of adequate employment? Or, is it that they prefer large families or home-making to employment? There is a need to examine the above issues, to help understand the dynamics of relationship between work status and fertility.

Net Effect of Work on Fertility

Does female participation in labour force independently lead to lower fertility or is the relationship due to some other antecedent variables? Female labour force participation and fertility are related to several antecedent variables such as age, education, duration of marriage, husband-wife role relationship, fecundity, availability of contraception, etc. Therefore, to examine the net relationship between female labour force participation and fertility, we need to control for those variables which are related to both independent (labour force participation) and dependent variables (fertility). Few studies have controlled for all variations of these intervening variables to examine the net effect of female work status on fertility and their findings are inconclusive [11; 25; 28; 44; 54]. This means that the independent effect of work on fertility has yet to be proved conclusively.

Is it Work That Affects Fertility or Fertility That Affects Work?

A question may be raised whether it is work that causes working women to have fewer children or whether they work because they have fewer children? Similarly, work experience is often found to be positively associated with spacing. But the question is: Why is this so? Is it because some women work for a longer time because their children are born at longer intervals or is it that they space children at longer intervals in order to be able to work? The relationship can operate in both directions. This cause-and-effect problem has to be resolved while examining the relationship between work status and fertility.

Recruitment Bias/Work Conditions

It is often alleged that employment agencies or employers prefer to recruit women who have relatively few children and discourage pregnancy and/or adopt punitive measures against working women having babies while in employment. Under these conditions, a working woman is likely to have fewer children than a non-working woman. The net effect of work on fertility cannot, therefore, be isolated.

Temporal Alignment

Sometimes, a wife's current labour force status is related to her cumulated fertility, which is a measure of past events. But this is misleading and can also produce a distorted picture. To avoid this problem, the measures of labour force participation and fertility have to be aligned in time.

Motives for Non-Working Women

Why do some women not work? Is it because they have too many children? Or, is it that their pregnancies have followed one another so quickly that they have been prevented from working when they would have actually preferred to enter into labour force? Or, is there a lack of adequate employment? Or, is it that they prefer large families or home-making to employment? There is a need to examine the above issues, to help understand the dynamics of relationship between work status and fertility.

Net Effect of Work on Fertility

Does female participation in labour force independently lead to lower fertility or is the relationship due to some other antecedent variables? Female labour force participation and fertility are related to several antecedent variables such as age, education, duration of marriage, husband-wife role relationship, fecundity, availability of contraception, etc. Therefore, to examine the net relationship between female labour force participation and fertility, we need to control for those variables which are related to both independent (labour force participation) and dependent variables (fertility). Few studies have controlled for all variations of these intervening variables to examine the net effect of female work status on fertility and their findings are inconclusive [11; 25; 28; 44; 54]. This means that the independent effect of work on fertility has yet to be proved conclusively.

OVERVIEW

Although the relationship between female labour force participation and fertility remains highly complex, it would still not be wild to hypothesize that given employment opportunities outside the home, a working woman will have fewer children and use contraception more frequently if she (i) is paid for her work and finds her labour treated as equally valuable with a man's labour; (ii) has the oppor-
tunity to participate in community and family decision-making in broad areas, including the number of children; (iii) is committed to her work; (iv) finds it difficult to transfer child-care responsibilities to others; and (v) works for a long period of time before having many children.

There is certainly some merit in providing females with employment opportunities outside the home as a policy move towards reduction of fertility. Although female participation in labour force may not be a necessary pre-condition for reduction of fertility, employment opportunities outside the home will create an environment for self-expression for women other than through being wives and mothers. Moreover, women exposed to non-familial activities, interests and rewards over a long period of time may reduce their desire for additional children. However, there is a need for further research to delineate more precisely the casual mechanisms through which female work affects fertility behaviour and the cause-and-effect dynamics of work/fertility relationship.

POLICY ISSUES

For females in the developing countries of the world, there are relatively few employment opportunities outside the home [56]. Moreover, male attitudes towards female employment outside home are also often negative [10]. It is commonly maintained in developing societies that in a situation where there is a large pool of unemployed and underemployed men, the question of providing jobs to females is a redundant issue. But this is a negative approach. As a fundamental right, women should have equal access to employment opportunities with men. In order to avoid competition with men, policies may be adopted to recruit women, particularly in those sectors which were traditionally served by women, for example, health, education, family planning, etc. Cottage industries, dairy farming, poultry farming, horticulture and like occupations may provide gainful employment opportunities to illustrate women as well as to those who have only few years of schooling. Employment and education in the long run must provide alternatives to child-bearing; in the short run, increasing, even slightly, the economic status of women (through simple innovations and training that increase their productivity) may do much to broaden their views which may result in a greater use of contraception and reduced family sizes.

In order to promote female education and employment, there is a need for a persistent drive against those social customs, beliefs and traditions which undermine the value of women as compared to men. Efforts should be made to dismantle the belief that women are inferior to men, and motherhood and domestic activities are the only desirable role for a woman.

Advocates of family planning programmes often argue that reduction in fertility would allow women to pursue higher education and gainful employment for attaining higher social status. But it can be equally forcibly argued that women who have attained higher status in terms of higher education, involvement in family decision-making, gainful employment outside the home and higher age at marriage for whatever reasons would also wish to practise contraception. Consequently, the issue of enhancing female status appears to be of crucial importance in creating an environment in which women would want to practise contraception in order to reduce fertility.

RESEARCH NEEDS

Further research is needed to (i) identify types of occupations and education facilities that can be generated in the rural areas of developing countries to divert the attention of women from normative pressure to get married early and have a large family; (ii) examine the cost of these facilities; and (iii) determine how these activities should be related to other rural development programmes, such as decentralization of industries to rural areas. Polgar [40] has suggested the need to study some of the actual situations in order to answer these questions. For example, where industrialization has been going on in some rural areas, attempts should be made to examine the impact of such rural industrialization programmes on women's employment, age at marriage, and attitudes toward contraception and fertility. Another research need pointed out by Mutia and Sastry [38] is the exploration of the nature of social change that is taking place within the family or the kinship system in a given area which may encourage women to accept employment outside the home. For example, a change in family structure, from the extended to the nuclear type, may have slackened the authority of kin, particularly of the in-laws. This changed situation may have created opportunities for female participation in labour force outside the home. It would be also interesting to examine how and in what way the status and influence of employed women under the changed circumstances differ from those in areas where such changes did not take place.

REFERENCES


