The Family, Marriage, and Gender Inequality

quantitative analysis of economic situation after divorce

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Abstract

In this presentation, I address how the institution of the family and marriage creates economic gender inequality. The focus is on the current situation in Japan, with an attention to recent changes. The main body of the presentation is based on quantitative analyses of living standards for divorced men and women. Data are drawn from the National Family Research of Japan (NFRJ) project, in which family sociologists have repeated large-scale surveys with national representative samples in fiscal 1998 (NFRJ98), 2003 (NFRJ03), and 2008 (NFRJ08). I conducted a series of regression analyses to determine the effect of gender on equivalent household income (i.e., household income divided by the square root of the number of people in the household) for divorced men and women, controlling such variables as age, education, household composition, and employment status. The results reveal strong effects of the gender differences in employment status and the presence of young children. These factors have maintained women's disadvantageous situation after divorce, while divorced men's situation has been getting worse in this decade. Another factor is remarriage, from which men and women receive different economic outcomes. We will discuss theoretical and political implications of the results.

1 Introduction

Increasing divorce is one of the major social changes in Japan today. According to the 2005 Population Census¹⁾, divorced (and remained single) people accounted for 5.4% of the population aged 25–69. The figure was lower in the past: 2.5% in 1975. Then it started to grow and has been doubled in these three decades. This change has been parallel to the increasing unmarried population. As a result of these changes, the proportion of married people has fallen to 70.4% in 2005.

Divorce has thus been a common phenomenon nowadays. In addition, the figure above does not include those who remarried. The proportion of those who underwent divorce, including those who remarried, should be greater by some percents. If the figure will continue to grow, it is highly possible that in the near future, a large proportion of the Japanese population will undergo divorce (Fukuda 2009).

This paper aims to determine the extent to which the gap in economic situations between divorced men and women, and to decomposite the factors creating the gender gap in post-divorce life. The aim has been derived from legal and policy-related concerns about gender equality. Japanese gender-equal policy, established since late 1990s, has never tackled to the impact of diversified marital status. Reformation of the divorce system has been discussed by law scholars, without quantitative evidence. Despite the growing probability of divorce, research on post-divorce life has been inactive and understaffed. In this paper, we will carry out an attempt to obtain quantitative evidence about the extent and the causal process of gender gap in post-divorce life.

2 Literature on Post-Divorce Life and Gender Gap

2.1 Quantitative approach to divorce and divorced people

In Japanese society, we have little literature of quantitative research on the economic gender gap in post-divorce life.

Under the Japanese family system, law notices of marriage and divorce are submitted to local governments. The Government of Japan has filed a record of notified divorces as a section of Vital Statistics (MHW 2000). These statistics form a reliable and official source for the frequency of divorces and the basic demographic variables of divorced people. However, it is not useful for our purpose, because it contains little detail on social and economic aspects.

Another data source is the follow-up surveys of divorced people sampled from the notifications of divorce submitted to the local governments (MHW 1999). These data can be used to ascertain, to some degree, social and economic aspects at the time of the survey. However, since such surveys do not explore long-term change in economic status, the data cannot be used to trace the impact of social and economic positions prior to marriage or changes in economic status after divorce.

2.2 Research of single-motherhood and the hypothesis of marital-life results

Under these circumstances, studies of single-mother households do provide some degree of data. Numerous researchers have conducted empirical studies on this topic, because single-mother households have been one of the major targets of social policy (Iwata, 2005). Most of these studies lack a perspective of male-female comparison, as a natural result of focusing on female subjects only. However, some such research offers suggestions for exploring gender differences.

The Japan Institute of Labour (JIL 2003) conducted a project aiming at the secondary analysis of the official statistics to establish policies promoting the independence of mothers in single-mother households. As a part of this project, Nagase (2004) presented a hypothesis on the conditions that cause economic problems for women after divorce: (1) Many women quit regular employment and are not employed before the divorce; (2) Mothers tend to take custody of young children; (3) It is difficult to forge a balance between work and childcare. Hamamoto (2005), Kambara (2006), Shinotsuka (1992), and Tamiya et al. (2008) also pointed out similar factors related to the economic difficulties of single-mother households.

Nagase (2004) implies that the post-divorce gender gap is created within the marital life before divorce. We accordingly refer to Nagase's hypothesis as the hypothesis of "marital-life results". If the hypothesis is correct, the gender gap is caused by faults in the family system. As Becker (1991) said, differences in human capital between spouses are due to the division of labor that is established to manage the household efficiently in marital life. We also mention responsibilities to provide for children, who are a outcome of marital life. Divorcing couple often fail a fair settlement of their human capital and childrearing responsibilities. As a result, gender differences created through the marital life bring about the gender gap in the post-divorce life. The hypothesis of marital-life results thereby implies the gender inequality after divorce is primarily attributable to marital life before marriage, although Nagase (2004) does not say so explicitly.

The hypothesis of marital-life results also suggests that the new principle for financial provision on divorce could dramatically reduce the gender gap. Since the establishment of the provisions on the distribution of marital property under an amendment to the Civil Code of Japan in 1947, legal scholars have for many years asserted that financial provision on divorce should cover the husband's or wife's human capital and social status obtained through their cooperation (Tsuneta et al. 1955; Wagatsuma 1953). Recently, Suzuki (1992) clearly argued that spouse's earning capacity should be subjected to equal division at divorce, if it was gained during marital life. Motozawa (1998, pp. 272–276) described a practical standard for this purpose. This standard calls for treating any changes that have occurred during marriage

- (1) by restoring to their original state those for which such restoration is feasible, and
- (2) by balancing others through monetary transfer.

The subject of such treatment includes disadvantages in employment arising from the division of labor between husband and wife and various burdens related to the raising of their children, including the opportunity cost for an interrupted career or for shorter working hours.

Let us refer to that principle as "equity-oriented", because it is logically based on the idea of equitable liquidation on divorce. In practical consideration, however, the principle is interpreted as calling for equal division. This interpretation is in line with recent trend about the divorce law.

2.3 Recent progress

The hypothesis of marital-life results was based on insufficient empirical grounds. Nagase (2004) reached to the conclusion by inferences made through the comparison of data on single-mother households with other official statistics, without any evidence directly supporting the hypothesis.

A possible counterargument is that many single-mother households are impoverished due to the fact that disparities were already developed in human capital formation prior to marriage. In fact, a relatively large proportion of single-mother households are made up of those in which the mother has a low level of education (Fujiwara 2005). The large number of women who are impoverished after divorce could be due to the fact that divorce is concentrated among women suffering disadvantages in human capital formation prior to marriage. If so, we cannot think of the gender gap as a result of marital life. It should rather be results from the gender differences in pre-marriage factors.

Based on this point, Tanaka (2008; 2010) made the attempt to directly analyze the economic status after divorce using Japanese national representative data. The analyses were on equivalent household income of men and women after divorce. Data were drawn from different two projects: SSM2005-J (Tanaka 2008) and NFRJ03 (Tanaka 2010). The results of these analyses clarified that the post-divorce equivalent household income of men is 29% to 36% lower than that of men. Two variables had a major impact on the equivalent household income of divorced persons: (1) a continuous career as a full-time regular employee and (2) the co-residence with one's young children after divorce. These variables exerted a great effect after controlling the effect by the level of education. In addition, pre-marriage employment status did not exert a significant effect. The results of these analyses indicate that changes in economic situations that arise during marriage lead to a post-divorce inequality in living standards.

3 The Question to Be Answered

The author set our goal in this paper as confirmation of the findings on the gender gap and its factors. The above-mentioned studies have reported qualitatively stable results, in favor of the hypothesis of marital-life results. However, these results are not quantitatively stable. The estimate values produced by the analyses differ widely. Therefore, we have not received reliable answers regarding the extent either of the post-divorce economic gap between men and women or of the effects exerted by the factors influencing this gap. We use datasets from a large-scale survey project in Japan, and replicate the method of Tanaka (2008; 2010).

4 Data

We use data from the 1999, 2004, and 2009 iterations of the National Family Research of Japan (NFRJ98, NFRJ03, and NFRJ08), conducted by the Japan Society of Family Sociology (Table 1). These are survey data from probability samples of Japanese nationals residing in Japan. The surveys were conducted using the self-administered questionnaire (home-delivery, leave-and-pick-up) method. Subjects were chosen through stratified two-stage probability sampling. These surveys, which focused on relations between family members and relatives, is characterized by their detailed questioning about marital history, including divorce, the attributes of individual children, and other family-related events.

For the first and second surveys (NFRJ98 and NFRJ03), respondents' age ranged from 28 to 77 years old (as of December 31, 1998/2003). For the third survey (NFRJ08), respondents' age ranged from 28 to 72 years old (as of December 31, 2008). In order to keep comparability among these three datasets, we truncate respondents over 72 years old in NFRJ98/NFRJ03 datasets.

Each survey collected data from a large sample of over 9,000 persons, which offers us an adequate size of subsample for the analysis on divorced people. The number of respondents who had undergone divorce is more than 400 for each dataset. We have thus ensured an enough number of cases to obtain statistically reliable estimate values through multivariate analysis.

5 Income and Gender Gap

5.1 Equivalent household income

The main variable for the analyses below is the equivalent household income. It is a gauge widely used to capture people's economic situation. This measure deflates household income (usually, disposable income) by household size —by dividing income by the square root of the number of people in the household. Assuming that there are economies of scale in the management of household finances and that all members of the household receive an equal distribution of income, equivalent household income traditionally has been used as an approximate measure of individual standards of living (OECD 2001).

The NFRJ surveys asked about annual household income (tax included) in the year previous to the survey. Respondents were required to select from pre-coded categories²⁾ for their income level. The equivalent household income is calculated as the following equation, with l denoting the lower and h denoting the upper limit of the selected income level (each in units of 10,000 yen), and n denoting the number of members of the household.

Equivalent household income
$$=$$
 $\frac{l+h}{2\sqrt{n}}$ (1)

The measure of equivalent household income derived in this equation has a skewed distribution. In the following analysis, we employ this measure converted using the natural logarithm to approximate a normal distribution. This conversion resulted in omission of a few cases with no household income (=0) from the following analyses, because logarithm cannot be defined for zero.

Table 2 shows the mean value of equivalent household income. Grand mean for the all respondents is slightly higher for NFRJ98 (3333 thousand yen) than other two surveys (2921 and 2973 thousand yen).

Gender gap is apparent in this equivalent household income. Figures for men are slightly higher than for women. A look at the values of equivalent household income shows that the figure for women was 7–10% lower than for men. However, when it comes to the magnitude of gender to determine equivalent household income, the difference by gender is not great. The coefficient of determination R^2 is between 0.003 and 0.006.

5.2 Gender gap by marital history

Table 3 shows gender differences in equivalent household income according to marital history.

According to these results, the equivalent household income for men does not vary greatly by marital history. For NFRJ98, the figure is 3125 thousand yen for divorced (and having no spouse) men, about 87% of that for men continuing their first marriage (3580 thousand yen). This ratio has falling to 78% (2448/3125) for NFRJ03 and 72% (2322/320) for NFRJ08.

In contrast, the female equivalent household income show greater variance among categories for their marital history. The ratio of the figure for divorced (and having no spouse) women to that for women continuing their first marriage is 52% (1788/3425) for NFRJ98, 54% (1636/3023) for NFRJ03, and 55% (1746/3150) for NFRJ08.

The right column of Table 3 indicates the female/male ratio for each category of marital history. Women's equivalent household income for NFRJ98, NFRJ03, and NFRJ08 are respectively 57.2%, 68.8%, and 75.2% of men's among those who divorced and having no spouse. The gender gap has thus been lessened, because men's figure has been declined as we seen above. However, there has been a significant gender gap perpetuated in this category³.

6 Factors for the Gender Gap after Divorce

6.1 Cases and variables

From the above results, it is clear that the gender gap appears among divorced people. What does create the gap? We analyze these results in detail below. According to Table 3, the sample includes at least 160 valid respondents for both men and women for each survey. This sample offers a sufficient number of cases. Moreover, in principle the other divorced spouses should also be included in the survey population⁴⁾, it should be possible to compare the risks borne by male and female spouses.

The subject of the following analysis is restricted to respondents who have undergone divorce. In addition to gender and the equivalent household income, the following variables will be introduced: age (in 10-year intervals), education (converted to years of education in standard periods), whether the respondent has remarried (i.e., whether or not he or she has a spouse), whether or not the respondent lives alone, co-residence with the respondent's parents, co-residence with a young child, and continuous regular employment. We offer explanation on details about the last two variables in the next two paragraphs.

We define the variable "co-residence with a young child" considering for both of the child's age and the parentchild relationship. Unfortunately, NFRJ data collected information on the respondent's "children" without any distinction among a child in blood, an adopted child, and a stepchildren. They also include no information to tell whether the child is a child of one's (ex-)spouse or not. It cause a problem for us in specifying the children born from the marital life before divorce. Here we take a rough criterion to screen out the children not from the former marriage: count the child under 13 years old, if the respondent had not remarried or the child's age was smaller than the duration since remarriage.

The variable of continuous regular employment is defined by the combination of two conditions: (1) the respondent's employment status was "常時雇用されている一般従業者" (ordinary regular employee) at the survey date, and (2) she or he did not answered as having an experience of quitting job because of childbirth or childcare. The former information was obtained with a question in a standardized format, which was common in all three surveys. But the question for the latter information was different among questions as a result of the efforts to revise the questionnaire for the precision in measurement, in sacrifice of comparability among surveys.

6.2 Gender differences in post-divorce life

Table 4 shows male and female averages for the variables used in this analysis. Most variables are two-value coded as 1 or 0 (i.e., so-called "dummy" variables), so that their means equate the proportion of the respondents for whom the condition is satisfied. Cases with missing values are deleted according to list-wise deletion criterion. For this reason, these data include fewer cases than Table 3.

Table 4 shows that the equivalent household income is higher for men and lower for women. This is the same result as seen in Table 3.

Age distribution differs slightly between men and women. The women tend to be younger and the men tend to be $older^{5}$.

Gender differences are apparent in education. For both men and women, the modal category is high school, but the percentage is greater for women (50–52%) than for men (42–44%). Men show higher percentages of being university graduates (17–28%) than women do (less than 10%). Women show, instead, considerable percentage in the category of junior college (around 10%). Percentage at the compulsory level is almost equal in the NFRJ03 and NFRJ08 data, but slightly higher for men in the NFRJ98 data. On average, you can summarize that men received higher level education.

Now we turn to family and household conditions. While the proportion of men who remarried (i.e. those with spouses) is 44–59%, for women the proportion is 29-30%. Men thus tend to remarry after divorce at more higher likelihood than women. While the proportion of men living alone (in an one-person household) is 21-27%, for women this proportion is around 13%. The percentage is thus higher among men. However, almost no difference is found in the proportions of respondents living with parents for NFRJ03 and NFRJ08 at around 23%, while that figure for women in NFRJ98 data is lower (12.5%). On the other hand, while few men (3–6%) live together with young children, the cases of women doing so are sizable (13–20%).

Gender differences are apparent in employment conditions as well. The proportions who continued ordinary regular employees account to around the half of men, but less than 20% of women have that status.

6.3 Regression analysis

We use these variables in multiple linear regression analysis to predict equivalent household income. Three models are estimated (Table 5).

First, Model 1 checks for the effect of gender, controlling only age composition. The coefficient of the "female" variable is negative for all three surveys. This indicates that women's equivalent household income tends to be lower in comparison with men's. The effect varies between 0.683 and 0.819. These values largely correspond to

the weighted between the two categories of "Divorced" in Table 3. The value has been rising in this decade, which reflects the narrowing gender gap we have seen.

Model 2 introduces the other variables. Education has significant effect by which higher level education brings about higher income, roughly speaking. The effect of remarriage (=having spouse) is positive. Co-residence with young children has a powerful impact: income would be lowered to 60-70% level by the presence of one's children under 13 in the household. Other variables concerning household composition, co-residence with parents⁶ and one-person household, have no significant effect. Continuous regular employment also has a great impact, raising the income by about 50-60%.

Finally, Model 3 adds interaction effects between gender and household composition. To easily understand the results, we look at Table 6, which carries a summary of predicted effect based on the Model 3 in Table 5. Table 6 demonstrates the clear effects of these interaction for women, with higher income for remarried (=having spouse) women and lower income for women in one-person household. The former's income is almost twice of the latter's. However, the interaction is not clear for men, with no consistent effect.

7 Discussion

7.1 Summary of the findings

The results of analysis make the following points clear. The economic disadvantages of women appear among divorced and widowed persons. For the most part, the causes of the worsening of economic conditions for divorced persons can be reduced to four factors : (1) having young children, (2) not being an ordinary regular employee, (3) not remarrying, and (4) having a low level of education. The above results largely support the results of the analysis in Tanaka (2008).

It is also clear that there is a difference between SSM (Tanaka 2008) and NFRJ datasets because of the sample selection. As we mentioned in Section 2.3, Tanaka's (2008) analysis using the SSM2005-J data reported greater gender gap than Tanaka (2010) using the NFRJ03 data. This difference may be due to the fact that remarried people is not included in the analysis by SSM2005-J. Table 3 shows that, among those who divorced but having no spouse, women's equivalent income is 66.8% of men's. This is largely equivalent with the result from SSM2005-J.

7.2 Against Gender gap as a result of marital life

The above results indicate that the family system should bear the primary responsibility for the economic gender gap. Women are disadvantaged after divorce by the result of marital life —that is, interrupted career and childcare burden. Gender-equal policy should consider reformation of the family system to offset such disadvantage.

As discussed in Section 2.2, we already have a proposal for such reformation advocated by family law scholars. The two factors of women's disadvantage have been the main topics in legal research about divorce. The proposal for equity-oriented has its root in the consideration of such factors. In fact, Motozawa (1988, pp. 274–276) counted the followings as typical cases to be equitably settled under the new principle: (1) advantage and disadvantage resulted from division of labor within the marital life, and (2) opportunity costs for childrearing, as well as (3) disease caused or aggravated by the marital life.

However, divorce is one of the largely ignored and understaffed fields in today's Japan. Today's reality is far from the establishment of norms that call divorced couples for a full settlement of human capital, social status, and responsibilities for children. Although some progress is being made from a legal perspective, no widespread consensus has been reached on the necessity for such reform. It is likely to take many years until a new principle of micro-level justice is established and norms are developed that effectively regulates people's behavior in circumstances of divorce. And, if the reformation was started, there would also be various difficulties to make decision for real cases (Tanaka 2007a; Tanaka 2007b).

7.3 Remaining problems

Among the four factors of gender gap, which we have confirmed in the sections above, two are clearly covered by the hypothesis of marital-life results. We can easily identify the social subsystem responsible to those factors, as we have seen. However, the other two factors are remained and are not clear in placing the responsibility.

First, there is a difference between men and women in terms of the likelihood of remarriage. This difference may make contribution to gender gap after divorce. It is obvious that remarriage is a problem with the family system, as a part of the mate-selection process. But it is not obvious whether the gender difference in probability of remarriage is the result of the former marital life.

On one hand, it is probable that the difference comes from the division of labor between husband and wife. In the typical sexual division of labor, the husband accumulates general human capital that can be easily applied outside of the marital relationship, while the wife accumulates specific human capital that is effective in a particular human relationship (England et al. 1990). This difference in their human capital can be a source of inequality in the marriage market. If this is the case, we can argue that the difference in the probability of remarriage is attributable to the former marital life. If so, financial provision on divorce should include compensation for such inequality, although such case has not been mentioned in the debate on the reform of divorce law.

On the other hand, it may be the case that the experience of divorce itself decreases a woman's competitiveness in the marriage market. If so, this is not a result from the couple's marital life. Although we can regard this factor as internal to the family system, it may not be suited to making a settlement on divorce, because it is not the responsibility of each couple.

Second, the gender difference in education involves problems difficult to solve. After completion of one's school education, it is difficult to eliminate the effect from educational gap. In most cases, one's academic career has been ended by the early 20s, and could hardly change afterwards. It will then continue to function as the source of knowledge, as the signal of cultural background, and as a screening device in competition. School education is so deeply instituted in the social stratification system that it is difficult to stop the differentiation process by education.

It is certain that the family is responsible for, at least, a part of the gender difference in educational attainment, because the parents are the first agent to make decision about the children's education (Brinton 1993; Hirao 2008; Abe et al. 2009). However, it is difficult to regulate the educational investment that parents make in their children. This is because there are no norms in the family prohibiting discrimination by gender. Anticipating a child's future life and attempting to give him or her suitable human capital is not recognized to be unjust, even if such anticipation of the child's future life is conducted through statistical discrimination using information based on gender. So it is unlikely to force parents to compensate the educational gap caused by intra-family discrimination.

The key issue is how we can eliminate the effect of educational gap on one's lifecourse after the period of school education ended. Although it is a ignored and understaffed area, in the background of the discourses about educational equalization focusing on younger cohorts, it constitutes a fronteer for the study of gender equality, as well as the issue of equalization through divorce.

Notes

- Population Census, time series data, Table 4 "配偶関係 (4区分), 年齡 (5歲階級), 男女別 15歲以上人口: 全国 (大正 9 年~平成 17 年)" (da04.xls). Downloaded from e-stat, http://www.e-stat.go.jp, 2011-02-07.
- (2) On the questionnaire, 9 categories are printed for NFRJ98, mostly separated in intervals of 2 million yen; 18 categories for NFRJ03, mostly separated in intervals of 1 million yen; 19 categories for NFRJ08, intervals are the almost same as NFRJ03. Note that respondent for NFRJ98 answered from fewer number of categories with wider intervals than for the other two surveys.
- (3) There is also a great gender gap for those who widowed in Table 3. However, widowed cases will not be addressed in this paper. This is because our data is not suitable for analyses of widowed men and women for two reasons. First, the sample size is small. There were only 68, 75, and 50 valid cases among men (see Table 3). It would be difficult to obtain significant results on a gender gap through multivariate analysis. Second, there is a bias in the survey subjects. In the case of widowed subjects, the spouses were deceased. The spouse was therefore not included in the population of the survey. This makes it impossible to trace differences in the risks borne by each spouse, with data available only for the surviving spouse.
- (4) This does not hold perfectly true for our data. There are limitations due to three reasons: (1) The subjects are limited to ages 28–72; (2) Non-Japanese nationals and residents abroad are excluded from the population; and (3) There were a large number of nonresponses and unanswered questions.
- (5) This figure may reflect the tendency toward marriage between an older husband and a younger wife. Alternatively, it may be the case that marriages between spouses with greater age differences are more likely to end in divorce. Whichever the case, the data contain a truncation effect in the age of the survey subjects because they are sampled from the population of people ages 28–72.
- (6) Murakami (2009) suggests that divorced women can receive the benefits of living with parents in their own home. Such an economic benefit related to house rent does not appear in our analysis using income as the dependent variable.

References

[Abe et al. 2009] 阿部 晃士 + 村山 詩帆. "高校生の進路志望と親からの教育期待の時系列的分析". ed.= 木村 邦博 教育と社会 に対する高校生の意識: 第6次調査報告書. 東北大学教育文化研究会. 49-66.

[Becker 1991] Gary S. Becker. A treatise on the family (enlarged edition). Harvard University Press.

- [Brinton 1993] Mary C. Brinton. Women and the economic miracle: gender and work in postwar Japan. University of California Press.
- [England et al. 1990] Paula England + B. S. Kilbourne. "Markets, marriages, and other mates: the problem of power". ed.= R. Friedland + A. F. Robertson. Beyond the marketplace: rethinking economy and society. Aldine de Gruyter.

[Fujiwara 2005] 藤原千沙. "ひとり親の就業と階層性". 社会政策学会誌. 13: 161-175.

[Fukuda 2009] 福田 亘孝. "配偶者との別れと再びの出会い:離別と死別, 再婚". 現代日本人の家族: NFRJからみたその姿. 有斐閣. 72–84.

[Hamamoto 2005] 濱本 知寿香. "母子世帯の生活状況とその施策". 季刊社会保障研究. 41(2): 96-11.

[Hirao 2008] 平尾 桂子. "人口変動とジェンダー・家族: 女子教育の効用とその変化". 教育社会学研究. 82: 89-107.

- [IPSS 2006] 国立社会保障・人口問題研究所. 少子化の要因としての離婚・再婚の動向、背景および見通しに関する人口学的研究:第 1報告書 (所内研究報告 18).
- [IPSS 2008] 国立社会保障・人口問題研究所. 少子化の要因としての離婚・再婚の動向、背景および見通しに関する人口学的研究:第2報告書 (所内研究報告 22).

[Isikawa 2008] 石川 晃. "年齢別離婚・再婚の発生確率:法律婚に基づく婚姻・離婚のコーホート分析". 少子化の要因としての離 婚・再婚の動向、背景および見通しに関する人口学的研究第2報告書(所内研究報告22). 国立社会保障・人口問題研究所. 13-32. [Iwata 2005] 岩田 正美. "政策と貧困". ed.= 岩田 正美 + 西澤 晃彦. 貧困と社会的排除. ミネルヴァ書房. 15-41. [JIL 2003] 日本労働研究機構. 母子世帯の母への就業支援に関する研究 (調査研究報告書 156). [JSFS 2000] 日本家族社会学会 全国家族調査委員会.家族生活についての全国調査 (NFR98) No. 1. [JSFS 2005] 日本家族社会学会 全国家族調査委員会. 第2回家族についての全国調査 (NFRJ03): 第1次報告書. [JSFS 2010] 日本家族社会学会 全国家族調査委員会.第3回家族についての全国調査 (NFRJ08):第1次報告書. [Katz 1997] Elizabeth Katz. "The intra-household economics of voice and exit". Feminist economics. 3(3): 25-46. [Kambara 2006] 神原 文子. "母子世帯の多くがなぜ貧困なのか?". 第2回家族についての全国調査 (NFRJ03) 第2次報告書 No. 2. 日本家族社会学会全国家族調查委員会. 121-136. [MHW 1999] 厚生省. 人口動態社会経済面調査報告 平成9年度:離婚家庭の子ども. 厚生統計協会. [MHW 2000] 厚生省.離婚に関する統計 (人口動態統計特殊報告).厚生統計協会. [Motozawa 1998] 本沢 巳代子. 離婚給付の研究. 一粒社. [Murakami 2009] 村上 あかね. "離婚によって女性の生活はどう変化するか?". 季刊家計経済研究. 84: 36-45. [Nagase 2004] 永瀬 伸子. "離別母子家庭の就業と賃金経路". 社会政策学会 第108 回大会. [OECD 2001] OECD. OECD employment outlook, June 2001. Organisation for Economic Co-operation and Development. [Onai 2005] 小内 透. "雇用システムの変化と学歴社会のゆくえ".現代社会学研究. 18: 17-37. [Ott 1992] Notburga Ott. Intrafamily bargaining and household decisions. Springer-Verlag. [Shimoebisu 2008] 下夷 美幸. 養育費政策にみる国家と家族: 母子世帯の社会学. 勁草書房. [Shinotsuka 1992] 篠塚 英子. "母子世帯の貧困をめぐる問題". 日本経済研究. 22: 77-11. [Suzuki 1992] 鈴木 眞次. 離婚給付の決定基準. 弘文堂. [Suzuki 1995] 鈴木 真次. "離婚給付制度の改革にむけて". ジュリスト. 1059: 69-75. [Tamiya et al. 2007] 田宮 遊子 + 四方 理人. "母子世帯の仕事と育児". 季刊社会保障研究. 43(3): 219-231. [Tanaka 2007a] Tanaka Sigeto. "Towards a lifestyle-neutral gender-equal policy: Are work-family reconciliation policies justifiable?" (unpublised manuscript). http://www.sal.tohoku.ac.jp/~tsigeto/gelapoc/bk12ii5e.html>. [Tanaka 2007b] Tanaka Sigeto. "Against intra-household exploitation: philosophy and policy for equity within the family in Japanese context". Paper read at East Asian Social Policy Research Network (EASP), 4th International Conference, 2007-10-20 Tokyo. http://www.sal.tohoku.ac.jp/~tsigeto/07z.html. [Tanaka 2008] Tanaka Sigeto. "Career, family, and economic risks". 2005年SSM 調査シリーズ. 2005年SSM 調査研究会. 9: 21 - 33[Tanaka 2010] Tanaka Sigeto. "The family and women's economic disadvantage". ed. = Tsujimura Miyoko + Osawa Mari. Gender equality in multicultural societies. 東北大学出版会. 215-234. [Tsuneta et al. 1955] 恒田 文次 + 吉村 弘義 + 村崎 満 + 大浜 英子 + 塩田 サキノ + 小林 麗子. "離婚の慰藉料と財産分与" (座談会). 法律のひろば. 8(5): 26-35.

[Wagatsuma 1953] 我妻 栄. 改正親族・相続法解説 (12th printing). 日本評論新社.

Acknowledgement

The data for this secondary analysis, National Family Research of Japan 1998 (NFRJ98) and National Family Research of Japan 2003 (NFRJ03) by the NFRJ Committee, Japan Society of Family Sociology, was provided by the Social Science Japan Data Archive, Information Center for Social Science Research on Japan, Institute of Social Science, The University of Tokyo. The author gratefully acknowledge the permission for the use of the National Family Research of Japan 2008 (NFRJ08) data by the NFRJ Committee, Japan Society of Family Sociology.

Table 1. Synopsis of NFRJ surveys

(A) About All NFRJ surveys (NFRJ98, NFRJ03, NFRJ08)

Survey name	全国家族調査 (National Family Research of Japan)
Survey organizer	日本家族社会学会 全国家族調査委員会(Japan Society of Family Sociology, NFRJ Committee
Survey company	社団法人 中央調査社 (Central Research Service Inc.)
Survey area	All over Japan
Sampling method	Stratified two-stage random sampling
Survey method	Self-administered questionnaire, home delivery, leave and pick-up
Website	http://www.wdc-jp.com/jsfs/english/nfrj.html

(B) The first survey (NFRJ98)

Subjects	Japanese nationals living in Japan and born between 1921 and 1970 (28 to 77 years old as of the and of 1998)*
Sample size	10,500 (response 6,985; response rate 66.5%)
Survey period	January to February 1999
Data availability	Deposited at the SSJ Data Archive by the University of Tokyo (Survey Number 0191)
Data used in this paper	From SSJ Data Archive, downloaded 2010-06-04

*: We used only respondents aged 28-72 in this paper.

(C) The second survey (NFRJ03)

Subjects	Japanese nationals living in Japan and born between 1926 and 1975
	(28 to 77 years old as of the end of 2003)
Sample size	10,000 (response 6,302; response rate 63.0%)
Survey period	January to February 2004
Data availability	Deposited at the SSJ Data Archive by the University of Tokyo (Survey Number 0517)
Data used in this paper	From SSJ Data Archive, downloaded 2010-06-04
	*: We used only respondents aged 28–72 in this paper.

(D) The third survey (NFRJ08)

SubjectsJapanese nationals living in Japan and born between 1936 and 1980
(28 to 72 years old as of the end of 2008)Sample size9,400 (response 5,203; response rate 55.4%)Survey periodJanuary to February 2004Data availabilityClose to the members of Japan Society of Family Sociology until summer 2011Data used in this paperVersion 4.0 (2011-02)

 Table 2.
 Gender and equivalent household income (geometric mean in 10,000 yen)

		Male	Female	Total	Female/Male
NFRJ98	Geometric mean	352.1	315.8	333.3	0.897
$R^2 = 0.006$	(Number)	(2928)	(2989)	(5917)	
NFRJ03	Geometric mean	304.3	281.5	292.1	0.925
$R^2 = 0.003$	(Number)	(2603)	(2878)	(5481)	
NFRJ08	Geometric mean	308.8	287.7	297.5	0.932
$R^2 = 0.003$	(Number)	(2165)	(2394)	(4559)	

 Table 3.
 Gender, marital history, and equivalent household income (geometric mean in 10,000 yen)

Survey	Marital History	Male		Female		Female/Male
-	-	G. Mean	Ν	G. Mean	Ν	Ratio
NFRJ98	Continued 1st marriage	358.0	(2363)	342.5	(2337)	0.957
$R^2 = 0.047$	Widowed, but with spouse	461.3	(14)	374.5	(6)	0.812
	Widowed, no spouse	250.6	(54)	203.8	(202)	0.814
	Divorced, but with spouse	338.5	(108)	315.8	(94)	0.933
	Divorced, no spouse	312.5	(76)	178.8	(142)	0.572
	Unmarried	339.4	(313)	284.9	(208)	0.840
NFRJ03	Continued 1st marriage	312.5	(2038)	302.3	(2243)	0.968
$R^2 = 0.040$	Widowed, but with spouse	369.6	(15)	172.7	(9)	0.467
	Widowed, no spouse	284.9	(60)	192.9	(185)	0.677
	Divorced, but with spouse	282.2	(114)	305.2	(78)	1.081
	Divorced, no spouse	244.8	(91)	163.6	(170)	0.668
	Unmarried	279.5	(285)	280.6	(192)	1.004
NFRJ08	Continued 1st marriage	323.0	(1641)	315.0	(1762)	0.975
$R^2 = 0.057$	Widowed, but with spouse	496.9	(8)	339.9	(6)	0.684
	Widowed, no spouse	218.0	(42)	181.5	(136)	0.832
	Divorced, but with spouse	284.9	(72)	281.0	(72)	0.986
	Divorced, no spouse	232.2	(90)	174.6	(178)	0.752
	Unmarried	279.2	(311)	279.0	(240)	0.999

Results of ANOVA: p < 0.01 for all of the main and interaction effects (by Type III SS).

Those who were both divorced and widowed were categorized into "Divorced".

Tabla 1	Descriptive statistics for regression analysis	sis (anly those who underwant divorce)
TADIC 4.	Descriptive statistics for regression analys	sis (only those who under went divolce)

		Male		Female		Difference
		Mean	SD	Mean	SD	Female-Male
NFRJ98						
Equivalent	household income*	5.792	0.728	5.413	0.865	-0.378
Age	28–39	0.207		0.198		-0.008
	40–49	0.234		0.293		0.059
	50-59	0.288		0.302		0.014
	60-72	0.272		0.207		-0.065
Education	Compulsory	0.326		0.250		-0.076
	High school	0.424		0.509		0.085
	Vocational school	0.027		0.103		0.076
	Junior college	0.049		0.112		0.063
	University	0.174		0.026		-0.148
Having spo	use	0.587	0.494	0.392	0.489	-0.195
One-person	household	0.212	0.410	0.125	0.331	-0.087
Co-residing	with one's parents	0.228	0.421	0.125	0.331	-0.103
Children un	der 13**	0.033	0.178	0.129	0.336	0.097
Continuous	regular employment †	0.446	0.498	0.190	0.393	-0.256
(Number)		(184)		(232)		
NFRJ03						
Equivalent	household income*	5.578	0.798	5.301	0.812	-0.277
Age	28–39	0.152		0.257		0.105
	40–49	0.294		0.306		0.012
	50–59	0.284		0.261		-0.023
	60-72	0.270		0.176		-0.094
Education	Compulsory	0.181		0.184		0.002
	High school	0.431		0.506		0.075
	Vocational school	0.103		0.118		0.015
	Junior college	0.059		0.118		0.060
	University	0.225		0.073		-0.152
Having spo	use	0.559	0.498	0.314	0.465	-0.245
One-person	household	0.235	0.425	0.139	0.346	-0.097
Co-residing	with one's parents	0.240	0.428	0.224	0.418	-0.016
Children un	der 13**	0.049	0.216	0.196	0.398	0.147
Continuous	regular employment †	0.426	0.496	0.176	0.381	-0.251
(Number)		(204)		(245)		
NFRJ08						
Equivalent	household income*	5.539	0.786	5.316	0.819	-0.222
Age	28–39	0.136		0.240		0.104
	40-49	0.278		0.280		0.003
	50–59	0.321		0.220		-0.101
	60-72	0.265		0.260		-0.005
Education	Compulsory	0.154		0.167		0.012
	High school	0.438		0.520		0.082
	Vocational school	0.080		0.138		0.058
	Junior college	0.043		0.085		0.042
	University	0.284		0.089		-0.195
Having spo	use	0.444	0.498	0.293	0.456	-0.152
One-person	household	0.272	0.446	0.138	0.346	-0.133
Co-residing	, with one's parents	0.228	0.421	0.236	0.425	0.007
Children un	der 13**	0.056	0.230	0.159	0.366	0.103
Continuous	regular employment †	0.543	0.500	0.179	0.384	-0.364
(Number)		(162)		(246)		

Mean: arithmetic mean. SD: standard deviation.

*: Natural logarithm of equivalent household income in 10,000 yen.
*: For those who had spouse, children were counted only when their age was smaller than the duration since the remarriage.

†: Those who had no experience of quitting their job because of childbirth or similar reasons, and were ordinary regular employee (常時雇用されて いる一般従業者) at the survey date.

Categories for education: Compulsory (中学校); High school (高等学校, including miscellaneous category); Vocational school (専門学校, after graduation of high school); Junior college (短期大学, in two years, and 高等専門学校=technical collage); University (大学, in four years or more, and graduate school)

Table 5. Regression analysis of equivalent household income (in 10,000 yen)

(A) NFRJ98

		Effect	95% confidence interval		
Independent variables		Exp B	Lower	Upper	
Model 1: <i>R</i> ² =0.062					
Female		0.683	0.583	0.799	
Age 28-	-39	0.866	0.692	1.083	
(ref.: 50–59) 40–	-49	0.829	0.674	1.020	
60-	-72	0.811	0.655	1.006	
(Constant)		373.082	315.244	441.531	
Model 2: $R^2 = 0.263$					
Female		0 890	0 756	1 047	
Age 28-	-39	0.802	0.639	1 007	
$(ref \cdot 50-59)$ 40-	-49	0.752	0.622	0.910	
(101000)	-72	0.863	0.706	1.055	
Education Cor	npulsory	0.692	0.581	0.824	
(ref.: high school) Voc	ational school	1.198	0.895	1.603	
Jun	ior college	1.045	0.804	1.358	
Uni	versity	1.481	1.135	1.933	
Having spouse	5	1.526	1.287	1.811	
One-person household		1.167	0.926	1.471	
Co-residing with one's pa	rents	0.886	0.720	1.090	
Children under 13		0.603	0.452	0.803	
Continuous regular emplo	yment	1.536	1.296	1.822	
(Constant)	5	259.837	205.223	328.985	
Model 3: $P^2 = 0.206$					
Female		0.835	0.616	1 1 2 1	
	30	0.833	0.617	0.966	
Age 20^{-1} (ref: 50, 50) 40^{-1}	-39 40	0.772	0.017	0.900	
(101 30–39) 40–	-49	0.737	0.011	1 108	
Education Cor	mulsory	0.508	0.581	0.819	
(ref · high school) Voc	npuisory	1 131	0.848	1 510	
(rer ingit sentoor) Voo	ior college	1.055	0.815	1.310	
Juli	iversity	1.538	1 183	1 999	
Having spouse	lversity	1 300	0.991	1.706	
One-nerson household		1.500	1 045	2 055	
Co-residing with one's na	rents	0 884	0.671	1 164	
Children under 13	lents	0.616	0.464	0.817	
Continuous regular emplo	wment	1 548	1 309	1 830	
Female \times Having spous	e	1.367	0.973	1.020	
Female \times One-nerson h	ousehold	0.570	0.363	0.895	
Female X Correciding u	vith one's parents	1 109	0.505	1.656	
(Constant)	ini one s parents	269 503	200 556	362 153	

N = 416 (only for those underwent divorce)

[continuing]

Table 5. Regression analysis of equivalent household income (in 10,000 yen) [continued]

(B) NFRJ03

-		Effect	95% confide	ence interval
Independent variable	s	Exp B	Lower	Upper
Model 1: <i>R</i> ² =0.041				
Female		0.748	0.643	0.870
Age	28–39	0.924	0.743	1.149
(ref.: 50–59)	40–49	0.856	0.703	1.043
	60–72	0.781	0.631	0.969
(Constant)		299.490	254.301	352.708
\mathbf{P}				
Model 2: R ² =0.238		0.005	0.050	1 1 4
Female	20.00	0.995	0.850	1.164
Age	28-39	0.995	0.798	1.239
(ref.: 50–59)	40-49	0.813	0.676	0.979
D1	60-72	0.947	0.774	1.159
Education	Compulsory	0.759	0.624	0.923
(ref.: high school)	Vocational school	1.199	0.957	1.504
	Junior college	1.120	0.877	1.430
	University	1.633	1.323	2.014
Having spouse		1.307	1.092	1.565
One-person househol	ld	0.886	0.706	1.112
Co-residing with one	's parents	0.928	0.767	1.123
Children under 13		0.669	0.528	0.848
Continuous regular e	mployment	1.470	1.249	1.729
(Constant)		204.496	160.537	260.493
Model 3: $R^2 = 0.268$				
Female		0.741	0.530	1.034
	28 30	0.741	0.330	1.034
(ref: 50, 50)	40.49	0.930	0.705	0.006
(101 30–39)	40 - 49	0.003	0.091	1 213
Education	Compulsory	0.993	0.812	0.017
(ref: high school)	Vocational school	1 160	0.024	1.450
(ICI.: Ingli School)	Junior college	1.100	0.928	1.450
	University	1.652	1 344	2 031
Having spouse	University	0.002	0.675	1 221
One person househol	d	0.908	0.075	1.221
Co residing with one	iu Va paranta	0.803	0.504	1.144
Children under 13	sparents	0.888	0.004	0.800
Continuous regular e	1 550	1 3 2 5	1.834	
Econclinuous regular e	1.559	1.325	2 750	
Female \wedge maying s	spouse	1.898	1.505	2.739
remaie \land One-pers	son nousenold	0.996	0.632	1.570
Female \times Co-resid	ing with one's parents	1.068	0.734	1.553
(Constant)		250.015	181.293	344.787

N = 449 (only for those underwent divorce)

[continuing]

Table 5. Regression analysis of equivalent household income (in 10,000 yen) [continued]

(C)	NFRJ08	
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		Effect	95% confide	nce interval
Independent variable	s	Exp B	Lower	Upper
Model 1: <i>R</i> ² =0.050				
Female		0.819	0.698	0.961
Age	28–39	0.790	0.626	0.998
(ref.: 50–59)	40–49	1.059	0.857	1.309
	60-72	0.761	0.614	0.943
(Constant)		277.827	233.836	330.094
Model 2. $P^2 = 0.260$				
Female		1 109	0.939	1 310
Age	28_39	0.884	0.703	1 112
$(ref \cdot 50-59)$	40-49	1 019	0.838	1 239
(101 50 55)	60-72	0.966	0.858	1 185
Education	Compulsory	0.683	0.545	0.856
(ref.: high school)	Vocational school	1.293	1.030	1.625
()	Junior college	1.242	0.934	1.653
	University	1.377	1.125	1.685
Having spouse		1.347	1.129	1.607
One-person househo	ld	0.994	0.803	1.230
Co-residing with one	's parents	1.084	0.893	1.315
Children under 13	- I ··· ··	0.597	0.467	0.763
Continuous regular e	employment	1.612	1.366	1.903
(Constant)	1 5	166.926	131.541	211.830
Model 3: <i>R</i> ² =0.281		4		
Female		1.072	0.787	1.459
Age	28-39	0.880	0.701	1.106
(ref.: 50–59)	40-49	1.030	0.847	1.251
	60-12	0.972	0.792	1.191
Education	Compulsory	0.686	0.549	0.859
(ref.: high school)	Vocational school	1.264	1.005	1.589
	Junior college	1.264	0.951	1.680
	University	1.3/8	1.126	1.68/
Having spouse	1.1	1.181	0.879	1.58/
One-person househo	ld	1.110	0.791	1.558
Co-residing with one	's parents	1.081	0.789	1.482
Children under 13	0.596	0.466	0.761	
Continuous regular e	1.643	1.391	1.941	
Female \times Having s	spouse	1.280	0.887	1.847
Female \times One-per	son household	0.759	0.491	1.174
Female \times Co-resid	ing with one's parents	1.015	0.692	1.491
(Constant)		169.390	125.555	228.530

N = 408(only for those underwent divorce)

Table 6. Effects of remarriage and household composition

	Female				Male	
	Having	One-person	Co-residing with	Having	One-person	Co-residing with
	spouse	household	one's parents	spouse	household	one's parents
NFRJ98	1.483	0.697	0.818	1.300	1.466	0.884
NFRJ03	1.276	0.592	0.702	0.908	0.803	0.888
NFRJ08	1.621	0.903	1.177	1.181	1.110	1.081

Calculated based on the estimated effects for the Model 3 on Table 5. The baseline (=0) is men who have no spouse, are not in one-person household, and are not co-residing with one's parents.

Recent findings Tanaka (2008): Effect of interrupted career / young children after controlling pre-marriage status Tanaka (2010): Similar results with more reliable data (NFRJ03) → Replication by other data	(1) Resulted distribution < Poverty < Variance, Gini coefficient, etc < 指差	Gender stratification Process of differentiating men/women on the hierarchical order of status Gender Resource process	NFRJ08: on page 23/24 Bit #angages (###E-distLotvie###) の収入は、報込 では次の中のとざいてはつだけ) では次の中のとざいてはつだけ えただい、(Cutr12だけ) 1 収入はなかった 8 500~ 589 万円台 16 1200~1299 万円台 3 100~129 万円台 11 400~ 1289 万円台 3 100~139 万円台 11 400~ 1399 万円台 4 130~139 万円台 11 400~ 1399 万円台 5 200~239 万円台 12 000~ 939 万円台 19 1600 万円以上 5 200~239 万円台 12 000~ 939 万円台 19 1600 万円以上 5 200~239 万円台 11 100~ 1199 万円台 5 200~239 万円台 11 100~ 1199 万円台
Post-Divorce Life Literature review:	Perspectives to inequality Inequality: Uneven distribution of resources Uneverce: Something scarce but needed by people	(3) Stratification Social process allocating people to the hierarchical order of status Ascription Ascription Ascription Ascription	NFRJ03: on page 5/18 B. 独立1/48.00.581 (年秋年ともにしている産業) の低入は、弱法分子 は次の中のとれた乱いていたようか、他の保護の方の収入点を動みてい は次の中のとれた乱いていたようか。他の保護の方の収入点を動みてい たきたい、(Chit 1-2)にか) がたい、(Chit 2-3)です たきたい、(Chit 2-3)です たきたい、(Chit 2-3)です たきたい、(Chit 2-3)です たきたい、(Chit 2-3)です たきたい、(Chit 2-3)で たきたい、(Chit 2-3)で たきたい ためで、(Shit 2-3)で ためで、(Shit 2-3)で ためで、(Shit 2-3)で ためで、(Shit 2-3)で ためで、(Shit 2-3)で ためで、(Shit 2-3)で ためで、(Shit 2-3)で ためで ためで、(Shit 2-3)で ためで ためで ためで ためで ためで ためで ためで ためで ためで ため
Population carsus 1950-2006; Population carsus 1950-2006; Mon aged 25-69 Openation carsus 1950-2006; Openation carsus 1950-2006;	Social System Theory Family Market School State Local community	No discrimination but Reproduction of meritocracy: Early socialization by well-educated parents → Good academic performance → Good job / high wage Injustice in this process?	Annual household income NFRJ98: on page 5/25 間: 5年1年間のお宅の収入(生計をともにしている家族 全員の収入の合計) は、税込みでは次の中のどれに近 いでしようか。 1 収入はなかった 6 600~799万円台 2 100万円本演 7 800~995万円台 3 100~1995万円台 9 1200万円以上 5 400~5995万円台 9 1200万円以上 5 400~5995万円台 10 わからない
Tohoku Univ. GCOE: The 23rd Monthly Seminar 2011.2.16 Sendai The Family, Marriage, and Gender Inequality quantitative analysis of economic situation after divorce TANAKA Sigeto (Tohoku University)	Contents Sociological theory of inequality Sociological theory of inequality Results from data analysis Introduction to quantitative analysis Implication from the findings 	(2) Discrimination Different treatment based on social categories with no justified reason	全国家族調査 (NFRJ) By Japan Society of Family Sociology ★ Detailed information on kinship and life events ★ National representative samples: 1998, 2003, 2008 ★ Huge number: 473, 494, 463 divorced



In Table 5 (A) Model 1 Direct negative effect of "female" after controlling age composition is 0.683 (0.583 ~ 0.799) 0.683 (0.583 ~ 0.799) Model 2 The effect is not significant 0.390 (0.756 ~ 1.047)	Findings Female EHI is 10% lower than male Mainly caused by widowed/divorced Mainly caused by widowed/divorced V Divorced men's EHI is decreasing V 4 factors of gender gap after divorce	Employment status Gender Labor market / Family Labor market / Family Living standards Living standards	Action of the secondary analysis. National Family Research of appan 1998 (NFRJ89) and National Family Research of Japan 1998 (NFRJ89) and National Family Research of Japan 2003 (NFRJ80) by the National Family Sociology. Nas provided by the Social Soence Japan Institute of Social Soence Japan Sociely downowed to the prime Social Soence Japan Institute of Japan Sociely of Tokyo.
Statistical test terminology "Significant" if $-c.i \rightarrow 1$ (=negative effect) or $1 < -c.i \rightarrow 1$ (=negative effect) "Not significant" if -1 (=undear effect)	Effect of remarriage/household (male) Define the second remarried Define the second re	Education Gender	Importance of Statistics Monitoring system of inequality Teal-time picture of stratification Strategic policy to stop stratification process Cocus on minority
Confidence interval 95% probability range of population value of population value Opper limit Lower limit	ffect of remariage/household (female) (Policy Implication Distance from stratification study to policy ✓ Social consensus about justice → Gender-equal policy since 1980s ✓ Implement of norm for subsystem → ?	Remarriage Gender T Family Remarriage T Family Living standards
Evaluation of sampling error Population (81,246,828) Random Sample (10,000) (for NFRJ03)	Result (Model 3)	Four factors (female/male) NFRJ98 NFRJ98 NFRJ03 Pre-marriage: 8.4% Education 2.2% 6.4% 3.8% Marital life: 2.2% 6.7% 9.8% Children 4.5% 6.5% 5.3% Post-divorce: Remarriage 10.8% 12.5% 6.1%	Childrearing Gender ↓ Family Childcare/Custody ↓ Labor market / Family Living standards