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TRANSFERS FROM MIGRANTS TO THEIR CHILDREN*
Evidence that Altruism and Cultural Factors Matter

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Abstract

This paper focuses on the determinants of financial inter vivos transfers by migrants living in France in 2003 to their adult children. From a theoretical viewpoint, such transfers may be explained either by altruism or by exchange. While parents would direct their assistance to their less well off children under altruism, support should be channeled to children who live nearby their parents under the exchange motive. We assess the relevance of these two motives using the French PRI survey. Unequal sharing is frequently observed and children are more likely to receive financial transfers when they are in poor circumstance, but not necessarily when living in proximity to parents. We also emphasize the role of cultural factors as determinants of the parental allocation among children. Muslim parents, in particular, are more likely to make transfers to sons than to daughters.

Keywords: altruism, exchange, inter vivos transfers, unequal sharing

JEL Classification: D62, J2

1. Introduction

This paper examines how family resources are redistributed across generations by investigating parental motives in the transfer process. Drawing on a sample of foreign-born parents living in France and focusing on inter vivos cash gifts made to adult children, we give particular attention to cultural factors, especially country of origin and religion, as determinants of the allocation among children. Understanding the motives for private transfers has long been a matter of concern among economists as it relates to the effectiveness of public transfer programs.

Since inter vivos transfers have a strong impact on the attainments and living standards of adult children¹, it is important to understand how parents make transfer decisions and especially how they decide on allocations among children when there are several offspring. Do parents make allocation decisions, for example, with the intention of reducing inequality among offspring (favoring a needy child) or is more given to the child who can most productively use the additional resources? Parents might make transfer decisions with their own welfare in mind or might follow cultural norms in their distributions, possibly giving larger sums to male offspring or to a first born child. Injunctions fostering the latter sorts of allocations, especially in regard to bequests, are found in the biblical texts of many faiths² and might well guide parental behavior in traditional settings with respect to inter vivos transfers as well.

The issue of transfer allocations among children has received considerable attention by economists. The parental motives literature mainly focuses on altruism versus exchange as competing models (see Laferrère and Wolff, 2006). In essence, altruistic parents care about offspring and provide financial support to enhance their well-being. Under an exchange motive, parents make financial transfers in return for services provided by children or to indebt the children to provide services at a later time point (Cox, 1987). Exchange models are largely neutral in their consequences for the replication of inequality, while altruistic motives can reduce the effectiveness of government transfer programs because of the potential for “crowding out” private family assistance (Cox and Jakubson, 1995, Schoeni, 2002).

The considerable empirical research on altruism versus exchange motives has yielded conflicting assessments. Much of the existing literature is characterized by an assumption that one or the other of the presumed motives describes the decision making of all parents, though a few studies have sought to associate their conclusions with a particular country, recognizing the possible impact of cultural norms and local institutional arrangements (Hayashi, 1995, Lucas and Stark, 1985, Spilerman and Elmelech, 2003). To the best of our knowledge, no study has sought to ascertain whether multiple motives might be operative within a country and whether different parental designs should be associated with particular population groups in a society³.

The intent of our contribution is to assess the relevance of the altruistic and exchange models using a unique data set from France that permits both a test of the applicability of one or the other of the motives to the full population under consideration, as well as an exploration of

¹ Some important studies of the effects of parental transfers are Mayer and Engelhard (1996) on the waiting time to homeownership, Spilerman (2004) on the living standards of young couples, and Lindh and Ohlsson (1998) on the rate of entry into self-employment and entrepreneurship.

² The rules of inheritance in the Old Testament are outlined in Numbers 27:1-11, and Deuteronomy 21:17. In particular, a daughter can inherit only if there is no male heir. Also, the eldest son receives a double share. Christian practice has been more diverse, in some places following the biblical rule while in other European lands primogeniture was the norm. Islamic law is more complex in regard to inheritances, with detailed prescriptions for different categories of inheritors; also, in practice, inheritance patterns often differ between Suni and Shi'i adherents. In a situation in which there is a daughter and son as survivors, the son inherits a 2/3 share, the daughter a 1/3 share (Radford, 2000).

³ Laitner (1997, p. 234), in a theoretical analysis, does note that “in practice, the two [motives] may often accompany one another, with altruism reducing enforcement difficulties in interfamily exchanges”. Also see the discussion in Light and McGarry (2004) who focus on the planned division of estates.

whether the transfer pattern differs by cultural group. The data set we use is entitled “Passage à la Retraite des Immigrés” (PRI hereafter), collected in 2002-2003, which surveyed immigrants to France regarding their financial situation, family relationships, and transfer histories (both to relatives living in France and remittances to the origin countries).

Although the data are cross-sectional, they offer several interesting features when focusing on the motives for private transfers to children. First, there are questions about the provision of transfers made during the last five years, with parents indicating whether or not they have helped each of their children. Second, parents provide information on the main characteristics of their children. This permits a reduction in measurement error, assuming the response bias is similar for all children in a family, as well as an opportunity to control for unobserved heterogeneity using random and fixed effects models. Although the income level of the children is unknown, the survey includes a measure of each child’s financial circumstance. Third, the sample consists of respondents who are heterogeneous in background, in that the migrants mainly come from Southern Europe or from North African countries, with different religions and cultural traditions.

Combining these various facets of the data permit estimates that take into account unobserved heterogeneity at the family level, and enable a consideration of the role of cultural factors. Our main results are that transfers from migrants are mainly altruistically motivated, but that they are heavily influenced by the donor’s religion and culture. We develop these themes in the following sections. In section 2, we briefly summarize the parental motives literature. Section 3 provides a description of the data and of the transfer patterns. Results from our econometric analysis pertaining to parental motive are reported in section 4, and the role of cultural factors in the transmission process is addressed in section 5.

2. Motives for private transfers: A brief review

Economists have suggested two main hypotheses to explain the motives behind private transfers, i.e. altruism and exchange (Laitner, 1997, Laferrère and Wolff, 2006).

Let us first consider the altruistic scenario, according to which parents care about their children’s situation (Becker, 1974). Assuming that parental income is sufficiently high to permit the transfer of financial resources, parents maximize a weighted sum of their own level of satisfaction and their children’s levels of satisfaction. Transfers are then a means to redistribute money across generations and among siblings. When parents help their children, individual levels of consumption (either of the parent or the children) do not depend on the distribution among the various family members. This income pooling property is the basis of the well-known Rotten Kid theorem (Becker, 1974).

In an altruistic setting, parents will increase the transfer amount when their own income has grown. Despite the loss in their private consumption, parents will be more than compensated by the rise in the children’s well-being. Conversely, for a child, the amount of transfer received is lower when the child is richer. Parents are also expected to favor those children who are in a poor situation relative to their siblings. Consider, for example, a sibship with two children, a rich one and a poor one. If the rich child receives extra revenue, parents will reduce the gift value made to the rich child. The additional amount of “saved” resources may then be transferred to the other, poorer child. So, the shape of parental transfers fully depends on the distribution of incomes between the various family members⁴.

Unequal transfers between siblings are expected under altruism. Nevertheless, equal sharing could be observed in the particular case where children are characterized by differentiated revenues, but parents are more altruistic towards a child who, say, “performs better” in some arena

⁴ A redistribution of resources between the parent and one child leads to a perfect adjustment in the transfer value, family income being held constant (see the discussion in Altonji et al, 1997).

of interest to the parent. Other explanations may be invoked for equal sharing within the family. Wilhelm (1996) argues that parents may suffer a psychic cost if they deviate from an equal allocation of resources. Stark (1998) suggests that a child who receives less than his or her siblings may feel under-appreciated, so that parents perceive emotional costs to treating their children differently.

The exchange motive involves some reciprocity between generations. Cox (1987) and Cox and Rank (1992) claim that financial gifts made by parents constitute payment for services and visits provided by children. Another mechanism is the familial loan model, where parents lend money for consumption, to be repaid in the future with a presumably above-market interest rate (Cox, 1990). In contrast with the altruistic model, the relationship between the amount of transfer received and the child's income may be either positive or negative, depending on the elasticities of supply and demand for time-related resources. As a child becomes richer, parents have to pay a higher price if they want to obtain the same amount of services from that child, but they may also purchase a lower level of attention⁵.

The exchange model leads to other interesting consequences. First, money-service exchanges are likely to generate an unequal division of transfers within the family. As pointed out in Cox (1996, p. 84), some children may have a comparative advantage to specialize in the provision of time-related resources. This would be the case, for instance, for children who do not have a paid job or who live in shared residence arrangements or nearby their parents. Second, a positive relationship between the measure of services and the financial transfer is expected (Cox and Rank, 1992). Nonetheless, such a pattern may also be consistent with two-sided altruism as in Becker and Murphy (1988).

Testing the relevance of the altruistic and exchange models should then be conducted at an intra-household level, with an emphasis on the allocation of private financial transfers among siblings. Surprisingly, many empirical analyses investigate transfers that are received by only one focal child in a family. This approach is certainly less data demanding, but it conveys much less information about the parental intent. A few papers have examined how parents divide their resources among children. These studies all reach a similar conclusion for inter vivos transfers, namely that poor children are more likely to be helped by their parents.

Drawing on the Health and Retirement Survey and using fixed effects models, McGarry and Schoeni (1995) find that respondents give greater financial assistance to less well off children than to offspring with higher incomes. In a second study (McGarry and Schoeni 1997) they also conclude that transfers mainly benefit poorer children within a family, and they reject the thesis that parents provide financial help in exchange for caregiving. Hochguertel and Ohlsson (2003) report that only 5% of parents in the US who give money to their children divide the gifts equally among the offspring. There is also evidence that parents use inter vivos gifts to smooth the income of their children, providing assistance at times when the child's resources are below his or her permanent income (Dunn, 1997, Dunn and Phillips, 1997).

In France, there has not been an empirical investigation of the intra-household allocation of parental resources. We attempt to fill this gap by examining a new survey of migrants living in France which contains detailed information on inter vivos transfers between parents and offspring. While our results are not representative of the full French population, an analysis of migrants relates to the behaviors of a growing segment of the population in this country, as well as in much of Western Europe. Further, because of the diverse backgrounds of the respondents we are able to inquire about the residual impact of origin country and culture, which may well influence intra-household transfer decisions.

⁵ If there exist only poor substitutes for the child's attention (Cox, 1996), then the relationship between the child's level of resources and the amount transferred by the parent should be positive.

3. Data and descriptive statistics

3.1. *The PRI Survey*

The ‘Passage à la Retraite des Immigrés’, used in the empirical analysis, is a cross-sectional data set collected in France between December 2002 and March 2003 by the Caisse Nationale d’Assurance Vieillesse, in collaboration with the Institut National de la Statistique et des Etudes Economiques. The primary focus of the survey was to provide an accurate description of the way-of-life of migrants currently living in France, especially with respect to migration history and their retirement and location expectations⁶.

With the aging of migrants, it is important for policy makers to know whether they intend to stay in France or return to their origin countries. As the aim of the survey is to better understand their retirement decisions, the sample comprises 6211 individuals between 45 and 70 years of age⁷. Each respondent was asked not only about his or her own situation, but also about the characteristics of other family members. A central feature of the survey is that it contains information on transfers given to all children and, hence, permits an examination of the intra-household distribution of financial assistance. Furthermore, given the life-cycle stage of the migrants, most of their children are adults, many at points in which they have substantial financial needs (such as for the purchase of housing or to start a family).

In this paper, we restrict attention to financial transfers given by parents to their children. Our primary focus is not one of understanding how intergenerational transfers flow within foreign-born families, whether upwards or downwards (see Attias-Donfut et al, 2006b), but one of investigating the intra-household allocation of parental assistance. The parent is the respondent in the survey. For each respondent, information was collected on gender, age, matrimonial status (living as a couple or not), numbers of children at home and elsewhere, years of education, self-reported health status, occupational situation, household income, and religion. The survey also includes a description of the migration history of the respondent: origin country, duration in France, and whether or not French citizenship is held.

Concerning the children’s characteristics, information was collected from the parent about each child, whether living in the parental home or elsewhere. This is an important feature of our data, since it permits some insight into parental allocation preferences. For each child, we have information on gender, age, citizenship, distance from the parental home, and contacts and visits with parents. In addition, for offspring older than 16, there are questions about the child’s economic situation. Although we lack data about the child’s income, the survey provides several variables by which we can proxy household income and material need.

In addition to educational attainment, we know whether the child is currently a student, unemployed, otherwise not in the labor force, or employed. For the last category, we have information about whether the job is performed in the private sector, in the public sector, or as self-employment. There is also a subjective question concerning the child’s level of financial well-being, given by an ordinal scale (ranging from ‘very poor’ to ‘financially very comfortable’). This subjective information is a-priori strongly correlated with the child’s level of income, though there may be measurement error and endogeneity concerns as a result of a self-serving response bias. These issues are addressed in the empirical analysis.

⁶ For a detailed description of the survey, see Attias-Donfut et al (2006b). While the data are not yet in the public domain, an English language version of the questionnaire can be obtained from the authors.

⁷ When designing the sample, exactly 12,010 migrant households living in France were randomly selected from the Census. The questionnaire was completed for 7,433 households, while there was no answer in 4,577 cases (refusal, impossible to contact, absent, etc). Finally, 1,222 cases were dropped from the sample, because the respondent did not meet either the age or the migrant criterion. Thus, 6,211 questionnaires are available to researchers. The questionnaire required approximately one hour to administer.

We now describe the sample selected for the study. First, trivially, we restrict attention to parents having children. Second, we only focus on adult children. These offspring are defined as being at least 20 years old at the time of the survey. Third, we account for children residing either in France or in the origin country. Fourth, we delete the few cases (N=95) with missing data on either parental or children's characteristics. Finally, since we want to investigate transfer decisions at the family level, we construct a new sample where each child is counted as one observation. Thus, a parent who has three adult children will contribute three observations to the new sample.

Owing to the various selections, the sample we constructed contains 13,762 child-parent pairs, corresponding to 4,999 families⁸. The key feature of this sample is that it provides information on how parental characteristics influence the decision to assist adult offspring. With these data we can assess the possible tendency by parents to provide more assistance to a child with particular characteristics. However, the children from the same parental household are not independent observations; as a consequence, an appropriate correction method using panel data techniques is needed when performing regressions.

Descriptive statistics are reported in Table 1. Referring, at this point, to the total sample (column 7), the mean age of the parents is 58 years, and 83.5% of them are living with a partner. They have completed 6 years of education on average, and 47.4% are home owners. Concerning migration history, the mean number of years in France is around 34. Approximately one-third hold French citizenship and 50.1% have difficulty with reading French. There are significant differences in cultural background. Some 42% come from Europe and 47.5% from Africa. Moreover, these continent groupings are concentrated in a few countries, with six nationalities representing around 75% of observations. Among European migrants, 34.3% are from Portugal, Italy and Spain; among African migrants, 42.8% come from Algeria, Morocco and Tunisia.

Insert Table 1 here

Regarding the children, 49.1% are girls and the mean age of the children is 30 years. They have more schooling than their parents, with 11 years of completed study, versus a parental average of 6 years. We note that 64.7% of the children are employed, 12% are students, and 10% are unemployed. Parents most often consider their children to be in a fair economic situation (54.2%), but 17.3% are viewed as financially poor by their parents⁹. Finally, while only 12% of the children live outside France, much of the cross-generation monetary flow returns to the origin country. In this respect, the latter transfers are closely related to remittances. Given these data features, it is necessary to take into account the possibility of heterogeneity, both between and within families, owing to the effects of location and cultural tastes.

3.2. The pattern of financial transfers

The exact question in the survey concerning private transfers is: "During the past five years, have you provided money, either regularly or occasionally, to family members or friends?" If yes, the respondent is asked to provide detailed information about each transfer. Importantly, at most four transfers are recorded in the survey. When some money is given to a child, we know which child received the assistance. Also, for each gift, there is information about the parental motive. The respondent had to choose between several alternatives, like helping the child because

⁸ Among the 6,211 respondents, exactly 430 have no children and were excluded from the sample. From the remaining families we obtain 19,285 children. Since we focus on children aged 20 and older, our final sample comprises 13,762 parent-child pairs.

⁹ Where parents were not aware of the financial circumstance of a child, the response 'unknown' was coded in the survey. Since the number of 'unknown's was relatively few, in the analysis these children were included in the intermediate 'fair' category, where they comprise less than 5% of observations in this category. To examine the robustness of the results, we also constructed a variable with four categories for the child's financial situation (poor, fair, rich, and unknown). The estimates are very similar with the two definitions of the child's economic circumstance.

of financial problems, buying a dwelling, because of a family event (e.g., marriage, birth, communion), etc. This information can be helpful in discriminating between altruism and exchange¹⁰. Finally, we have information on the value of the gift.

A difficulty, however, is that the gift amount received by a child is coded in eleven categories. One strategy that can be used with such data is to estimate interval-level models, which allow for an observation to be either point, interval, left-censored or right-censored. A second approach is to construct a continuous distribution from the categorical data, making use of the information about interval sizes and coding each cell by its midpoint. Normally, there is a question about the value to be assigned to the highest category, which is open-ended. However, in the present survey, there were no respondents in this category, which is receipt of a transfer greater than 90,000 euros, or even in the immediately preceding category (60,000 to 90,000 euros)¹¹.

Using this approximation we obtain a mean value of 2727 euros per transfer, with a standard deviation of 5848 euros. There is, however, a problem with this approach when the income variable is used as a dependent variable in a regression model, namely, the error distribution cannot be assumed to be normal because the measurement error in the dependent variable is non-normal¹². We therefore also use a third approach, which draws on the method of simulated residuals described in Gouriéroux et al (1987). In this formulation, one constructs a continuous distribution from information on a categorical variable by inferring from a regression model a predicted value for the outcome and then adding a random term. For each observation, the 'augmented' predicted value (in the sense that it includes a random component) has to match the original category.

We applied this technique to the categorical information so that, for each positive transfer, a continuous value was obtained which consistently matches its original interval.¹³ The mean transfer value with the method of simulated residuals is 2613 euros, quite close to the estimate of 2727 given by the midpoint approximation, and the standard deviation is almost identical under the two estimation procedures (5808 euros with the simulated estimates). In modeling the transfer receipts, we employ all three approaches (interval, midpoint, simulated) to assess whether the substantive results are sensitive to the definition of the dependent variable.

Several points should be noted concerning the measurement of private transfers with the PRI data. First, transfer information was collected only for the last five years. This can be problematic since the transfer probability is clearly a function of the time interval referenced in the question. A longer period would surely have produced more transfers. Thus, the available data do not permit a comprehensive description of transfers over the full life course¹⁴. Offsetting this loss is the ability to better link the provision of transfers to the current situation of the recipient. Transfers that were made many years earlier cannot be easily associated with present levels of need. Past gifts may also have influenced the child's current financial status, which can lead to a causality issue.

¹⁰ However, such data must be used with caution. A parent who decides to help a needy child is certainly motivated by altruistic feelings, but a transfer related to housing or school expenditures conveys little information about an altruistic or exchange intent.

¹¹ The distribution of gift amounts is quite skewed. Some 36% of observations fall in the lowest transfer category (less than 360 euros); 18% in the next lowest category (380-760 euros). From that point the fall off is roughly exponential, with 3% of observations in category 9 (15,000 to 30,000 euros), the highest category containing 0 observations.

¹² We would like to thank an anonymous referee for pointing out this out.

¹³ We compute a continuous value once for each financial transfer. This generates a continuous distribution of the transfer amounts which is then used in the various regressions.

¹⁴ Because of recall problems, the tendency to inquire about transfers during a limited time interval is common to many large scale surveys. Thus, the National Survey of Families and Households inquires about transfers during the prior five years, while the Health and Retirement Study asks about transfers in the preceding 12 months.

Another problem is that at most four recipients are recorded in the survey. However some families with more than four children are included in the regression analysis. This could produce an overestimate of the frequency of equal transfers (that is, assistance provided to all children) were an omitted child to not have received a transfer. Fortunately, there are very few families in the PRI survey who report gifts to as many as four recipients over the five year period (a frequency of less than 1%). As a consequence, the PRI survey, with its detailed description of the parent and with information about each potential recipient, is well suited for investigating the matter of the intra-family allocation of transfers.

As reported in Table 1, some 9.2% of children were helped by their parents during the five years preceding the survey, a transfer rate that is low in comparison with comparable studies (e.g., McGarry and Schoeni [1995, p. S188] report a receipt rate of 13.8% in the prior 12 months in the Health and Retirement Survey). While the transfer rate in the PRI study may appear low, and the transfer amounts are small since the (simulated) mean value is 2613 euros for each receiving child, one has to keep in mind that migrants living in France have little in the way of financial resources with which to help their offspring. Further, the migrants have other family members, besides children, residing in the origin country and part of the migrant's resources is transmitted to these relatives in the form of remittances. As to the distribution of the transfer amounts, the disparities are huge since the (simulated) median is 688 euros while the mean is equal to 2613 euros. Clearly, most transfers involve small monetary sums, though a few are large enough to be viewed as serious transmissions of parental wealth.

Table 2 provides details about how the transfer stream varies by origin location and religion. The frequency of receipt, as well as transfer amount, is much higher for children of migrants from Europe and America than from the other continents. The probability for a child being helped is equal to 13.6% for European-origin families, but only 5.3% for families from Africa. Even within Europe, there exists a gap between northern and southern countries. The transfer rate is more than twice as high in the former. In part, origin country is a proxy for the level of household resources. Migration from southern countries is linked to job intentions, especially for low-skilled workers, while migration from northern countries is more often associated with reasonably well-off households seeking a better location for retirement. Another consideration relates to family size, which tends to be larger for North African migrants and which may reduce the likelihood of a transfer receipt by any one child.

Insert Table 2 here

Similar results are found with respect to the religion categories. We created six dummy variables, covering Catholic, Muslim, Protestant (including Evangeliste and Anglican), other Christian (Orthodox, Gregorian, Maronite, other Christian Armenian), no religion, and a residual "other" category which includes respondents who did not report a religious affiliation. Again, we find sizeable disparities, which can be associated with Northern and Southern countries. The probability for a child to be helped is 12.8% when the parent is Catholic, but only 4.3% when the parent is Muslim. These differences possibly reflect income disparities (Muslims immigrants come predominantly from North Africa and tend to be poorer) or cultural norms regarding intergenerational support, which, in Muslim countries, could be more oriented toward assisting elders.

A consideration of the reasons conveyed by the parent for making a transfer, reported for the full sample in column (1) of Table 3, may be helpful in determining the transfer motive, although the responses must be examined with caution. It is possible that parents declare themselves as more altruistic than they are in daily life. When examining the primary reason stated by the donor, we find 42.9% of the gifts are directed to help children because of financial problems. As noted, this is not surprising since most of the children receive transfers of limited value, too small to assist with the purchase of expensive items such as a home.

Insert Table 3 here

The fact that parents help children when they are needy is consistent with some altruistic motives. Yet, a benevolent motive is insufficient for explaining what happens in the migrant population. Indeed, the data suggest that several motives may be operative. On the one hand, 13.8% of parents helped their children to buy a dwelling and 6.9% are concerned with non-housing expenditures. On the other hand, 8.6% of the gifts have been made in response to ‘happy’ family events, and 15.9% of parents simply state a desire to make a gift. Clearly, the latter sorts of transfers are not associated with poor financial circumstances on the part of children. Beyond this account, there are substantial differences in motive by religion (columns (2) and (3)), a theme that we explore later in the paper.

Concluding our overview of parental decision making among migrants, we present summary statistics in Table 4 on the intra-family allocation of transfers, which will be particularly relevant to our consideration of cultural factors in the transmission process. Because of the questionnaire design, noted earlier, this sample is restricted to families with four or fewer children. Also, one child families are omitted from the calculation of equal/unequal transfers because there is no allocation decision to be made. The sample for the subsequent regression analysis of unequal versus equal allocation is therefore reduced to 3,149 families.

Insert Table 4 about here

Consider the magnitude of unequal sharing and, for the moment, examine only the top panel, referring to the total population. On average, some money is received by all the children, our definition of equal sharing, in 7.9% of cases (column 4) while the proportion of families in which at least one child, but not all, obtained parental assistance is 9.8%. Hence, among families that received assistance, the frequency of unequal sharing is 55.4%, a figure only slightly below the reports of others (e.g., Wilhelm 1996, though with respect to bequests). Not unexpectedly, the odds of unequal sharing increases sharply with family size (column 5).

We emphasize that our characterization of “equal” and “unequal” sharing is based on transfer probabilities, not on amounts transmitted, and is therefore an approximation to the true figures. The frequency of unequal sharing is overstated because of the different ages of children in a family and the limitation of the observation period to the last five years. Any transfer made outside this time interval is not visible to us. On the other hand, the rate of unequal transfers may be understated because we make no reference to amounts, only to whether a transfer was received by a child¹⁵.

4. Econometric Analysis of the Determinants of Transfers

To understand transfer decisions within the migrant population, we undertake an econometric analysis using the matched child-parent sample. The dependent variable is a dummy term which is equal to one when some money is received by a given child. The regressors are the usual human capital and demographic characteristics of the parent plus terms for health status, household income, homeownership, and three variables that relate to the migration trajectory of the respondent (duration in France, whether or not French citizenship is held, and whether the migrant experiences problems in reading French). To capture possible cultural effects, we introduce a dummy term for the Muslim religion. We also introduce a set of variables that tap characteristics of the child.

As we have repeated information on children for many of the families, standard regressions such as Probit models will produce biased estimates. As pointed out by McGarry and Schoeni (1995), unobserved factors associated with transfers, such as the extent of parental altruism or the taste for redistributing resources, tend to be correlated among siblings. We therefore account for

¹⁵ We also constructed an alternate definition for equal transfers, based on amounts in the range of 0.9 to 1.1 of the average for the sibship during the preceding five years. The multivariate results are quite similar under the two definitions.

family unobserved heterogeneity through the use of panel data techniques. Either a random or fixed effect formulation permits the potential bias induced by the presence of unobserved parental characteristics to be controlled for, and we consider both formulations in order to assess the sensitivity of the results to method. We begin by estimating a random effects Probit model. With this specification, it is assumed that the explanatory variables are uncorrelated with the unobserved parental effects.

The results are reported in column 1 of Table 5. Regarding the consequence of parental characteristics, the probability of a child receiving assistance increases with parental age until 56.4 years and then declines, possibly a consequence of the greater need for funds as retirement is approached. We also observe a fall off in the probability of receipt as a function of the number of children in the parental household, irrespective of whether they live at home or elsewhere. This suggests a process of competition for parental resources--the more siblings, the lower the probability of receiving assistance. Not surprisingly, the gift rate is a positive function of education, income, and homeownership, as each of these terms taps the financial status of the parent. We also find evidence of an acculturation effect, in that difficulty with reading French by the parental respondent, net of controls for human capital and other parental resources, reduces the likelihood of receipt by a child, a suggestion of the continued impact of country of origin and the norms thereof among the less integrated migrants. Similarly, there is an indication of a religious predisposition, in that the transfer rate is lower among Muslim respondents, though this result is only marginally significant.

Insert Table 5 here

Characteristics of the child also contribute to the receipt incidence. Indeed, an assumption of insignificance of the child's covariates in the Probit equation is rejected by a Wald test; clearly, parents take into account the needs of their children in making transfer decisions¹⁶. The likelihood of receipt of assistance is an increasing function of a child's age until 36 years; beyond this point assistance from parents becomes less frequent. It is hardly surprising that parents target transfers to younger offspring who, presumably, are coping with the costs of starting a household or with childrearing. A result of some interest relates to gender: female children are substantially less likely to receive transfers than their brothers. Interestingly, this result departs from studies in the United States (e.g., McGarry and Schoeni, 1995).

The direct measures of the economic circumstance of a child provide the clearest insight into how parents make transfer decisions. The child's economic situation is proxied by a set of variables: education, occupation, and a subjective measure of financial need that was reported by the parent. While the education variable is not significant, both occupational status and the financial terms provide consistent results: assistance is more likely to be received by a child who is a student or otherwise not in the labor force, in contrast with one who is employed. Further, parental aid is more frequent if a child is in fair or poor financial circumstance, rather than "rich". Migrants to France, clearly, target their less well-off children for transfers¹⁷.

To investigate the sensitivity of the results to our correction for unobserved heterogeneity, we utilize the conditional (fixed effects) Logit approach described by Chamberlain (1980). The sample is now restricted to families in which at least one child but not all received a transfer. Parental characteristics are not introduced since they do not vary among the children of a given sibship¹⁸. With this restriction the number of observations is reduced to 1,449. Estimates for this

¹⁶ This suggests that in the migrant population we can reject the hypothesis that transfers from parents are explained by some kind of warm-glow process, according to which parents derive egoistical pleasure from the act of giving.

¹⁷ Cox (1990) suggests that the negative relationship between the probability of transfer receipt and the recipient's economic situation may be a consequence of liquidity constraints.

¹⁸ Both observed and unobserved parental characteristics are, of course, picked up by the family fixed effects.

fixed effects model are reported in column 2, and show results that are consistent with the random effects specification. We find, again, that children not in the labor force, and offspring in fair or poor financial circumstance, are more likely to obtain assistance. Again, we note that the likelihood of receipt increases with distance from the parental home and that female children are less likely to receive support.

A related matter concerns the reliability of the parent's assessment of a child's financial situation. This could raise an endogeneity issue in that parents might report a child to whom a transfer has just been given to be in poor financial circumstance, i.e. essentially an attempt by the parent to achieve cognitive consistency¹⁹. However, the parent is the source of information about all the children in a household. We therefore assume that measurement error contained in the parental report is the same for all the offspring, in which case much of the bias would be removed in the fixed effects formulation²⁰. However, this condition is unlikely to hold to the extent that the measurement error depends on the amount of time elapsed since the transfer was given, or on the amount of the transfer.

We attempt to explain the transfer amount received by a child using a Tobit model with a random effects specification to control for unobserved heterogeneity at the family level (columns 3 and 4 of Table 5). We estimated the model twice, once with the amount given by the midpoints of the receipt categories, and a second time with the simulated transfer distribution. We obtain similar results from the two formulations, suggesting that our findings are robust to the coding of the dependent variable. As in the analysis of the incidence of receipt, we conclude that financially well to do parents provide more funds to their children, that a smaller sibship size means a larger transmission, that lack of acculturation (difficulty with reading French) reduces the transfer amount, and that smaller sums are received by children of Muslim migrants. Similarly, in regard to the children's characteristics, we find a preference in the amount transferred for offspring who are in fair or poor circumstance, who live in the origin country or in France but at a distance from the parent, and who are male; in short, findings that are analogous to the determinants of transfer incidence.

To further assess the sensitivity of the results to the coding of the dependent variable, the preceding analysis was replicated using an interval regression model with the zero values treated as point data and the positive amounts as interval data. The estimates from this specification (column 5) are quite similar to those of the Tobit regressions. There are a few differences with the children's covariates, especially "female" and "not in labor force" which are now insignificant; however, the parental transfers clearly remain targeted towards the poorer children.

To summarize, this analysis of migrants to France suggests that parents are more likely to help their poorer children, a finding that is consistent with both an altruistic and an exchange motive. A further finding, however, supports altruism. The exchange motive is based on a notion of reciprocity, such as transfers given to a child in return for assistance to parents in the form of visits and other services. Such a process would suggest more frequent or larger transfers to children who live in proximity to parents and, consequently, are in a better position to provide services. In this regard, the findings in Table 5 consistently indicate a positive effect of distance within France

¹⁹ We stress that the same problem pervades many studies of the distribution of private transfers within the family. In many questionnaires, the parent is asked about the financial situation of the children. Even when the parent chooses among different income categories, the parent may be tempted to understate the true income of a child if a transfer has just been given to the child.

²⁰ We re-estimated the various models excluding the parental measure of the child's financial situation in order to assess the extent of change in the coefficients of the more objective measures of financial need. The findings, not reported here, show that the preference for less well-off children is a robust finding. Indeed, with the fixed-effect Logit specification, the probability of a child receiving a transfer is higher when the child is a student or otherwise not in the labor force. Also, the coefficient attached to the unemployment term becomes significant at the one-percent level, though it barely reaches significance in the regressions in Table 5, which include the parental subjective estimate of child's financial status.

on both transfer frequency and amount, and a higher rate of transfers to children living outside of France, findings that are inconsistent with an exchange motive.

5. Cultural influences on the parental allocation

Migrants bring with them a cultural heritage regarding appropriate family arrangements and the responsibilities of parents and children toward one-another. Although the full force of these traditions is likely to be eroded with duration in the receiving country, immigrant groups that are very different from long term residents in language, religion, and normative values are likely to acculturate slowly (Breton, 1964).

In this section, we examine the Muslim versus non-Muslim divide among migrants to France because this division represents a deep cleavage in French society and elsewhere in Europe. Some evidence of the force of this distinction for parental transmissions is apparent in the descriptive information of Table 3. From the entries in columns (2) and (3), it is evident that there are rather considerable differences among the communities in reasons for providing assistance to children. Whereas 35% of non-Muslim parents emphasize the financial need of children, the entry for Muslims is more than twice this figure. In part, the disparity might reflect the differential financial needs of children in the two communities, or differences in economic resources among the migrants, matters that we explore in this section.

To make evident the dimensions of the cultural differences, we report in Table 4, panels B and C, the differential tendency toward equal allocation on the part of the two migrant communities. Overall, the rate of assistance to children is twice as high among non-Muslims (21% versus 10%, see total figures in column (2)), but this might also be due to the lesser resources of Muslim parents. More compelling is the huge disparity between the communities in tendency toward equal allocation, 10.4% among non-Muslims, 1.5% among Muslims (column 4). This proclivity is summarized in column (5) which reports the ratio of unequal to equal allocations, revealing a massive difference between the groups. Further, a Probit model for unequal versus equal sharing which uses parents as observations (column 6 of Table 5), makes clear that controls for parental resources do not eliminate the tendency toward unequal sharing in the Muslim population. Indeed, there is little indication that the level of parental resources, as measured by income or wealth (homeownership), influences the parental decision, though there is a small tendency toward equal allocation among better educated respondents.

With this motivation for examining cultural effects, we turn to a more detailed examination of the allocation process. Probit estimates for the probability of a transfer receipt, by religious community, are reported in columns (1) and (4) of Table 6. What is apparent is the much greater responsiveness by non-Muslims to the parental characteristics, as measured by the magnitude of the coefficients. For this religious/cultural group transfer receipt reflects parental age, peaking at 61 years, education, and household income (see Figure 1). These variables have less impact on decision making among Muslim parents. Also, the numbers of children at home and the number outside the home--measures of competition for parental resources that are significant for both communities--show greater effects for non-Muslims. With respect to the number of children at home, the marginal effect is almost ten times as large among non-Muslims than among Muslims: an additional child reduces the receipt probability by 3.7 and 0.38 percentage points, respectively.

Table 6 and Figure 1 about here

With one notable exception, the consequences of the children's characteristics for receipt of a transfer are less dramatic. In both communities the less well off child is more prone to obtain assistance; similarly, in both, the likelihood of a transfer receipt is greater for a child residing outside France, though the effect is considerably larger for Muslim migrants. What is distinctly different, however, is the role of gender in the two communities. A Muslim daughter has a receipt

probability that is around 40% of a son's value (estimated at the means of the explanatory variables); among non-Muslims there is no gender difference.

We suggest that the gender effect is a cultural artifact. As remarked earlier, in note 2, it is prescriptive in Muslim societies to provide smaller bequests to daughters; this norm may well influence inter vivos transfers as well. Further, in clan organized societies such as the Arab and North African countries, parents often see their adult daughters as belonging to the husband's family upon marriage, and may consider them to have a lesser claim on the resources of the birth parents (Jowett 1991).

To pursue the matter of the robustness of the estimates in the context of unobserved parental characteristics, we report in columns (2) and (5) the results from a fixed effects Logit model. For reasons discussed earlier, these regressions are restricted to the subsample of children from sibships of size two to four. The results are similar to those from the random effects models. In both communities there is a tendency to provide more support to a needy child, to prefer the child who does not live in France or who resides at a greater distance from the parental home. The most noteworthy difference is that with the fixed effects model we find a lower rate of transfer receipt by daughters of non-Muslim migrants relative to the sons, though the gender disparity is much greater in the Muslim community. In the former, the preference for sons translates into a receipt rate for daughters that is 69% of the son's rate, whereas, among Muslims, the corresponding figure is 36%.

In regard to transfer amount, the findings parallel the results for the incidence analysis (Tobit model, columns (3) and (6) of Table 6). With respect the parental characteristics, one difference is that, among non-Muslims, we find a stronger effect of financial resources, in that home ownership (an indicator of equity) is now significant. With respect to the child's characteristics, two matters stand out. First, there is a reversal between the Muslim and non-Muslim groups with respect to the importance of the parent's and child's characteristics, as judged by the magnitudes of the coefficients. The parental terms have larger effects among non-Muslims whereas the child's characteristics exhibit greater impacts among Muslims. Second, in contrast with the (fixed effects) incidence analysis, there now is no evidence of a disadvantage for daughters among non-Muslims, while their disadvantage in the Muslim community remains substantial.

To summarize, parental characteristics and especially the financial resources of parents appear to be less relevant to transfer decisions by Muslim migrants. In the main, the pattern of transfers by this group reflects measures of their children's financial need, rather than differences in the availability of parental resources. This can be interpreted as suggesting a more calculative approach by Muslim parents in making transmittal decisions. Funds in some amount are routinely provided when required by a child, irrespective of the parents' financial circumstance. The data in Table 3 are consistent with this assessment: Muslim parents provide assistance "because of financial need" at a rate that is twice the figure for non-Muslims. At the same time, as befits parents who often are poor, the amounts provided tend to be quite small (compare columns 2 and 3 of Table 3). The second distinctive difference between the religious/cultural groups relates to the children's characteristics. While parents from both communities are responsive to the financial needs of their children, daughters are singled out by Muslim parents for substantially fewer transfers and lesser amounts.

6. Concluding comments

The objectives of this paper were twofold: to compare the contrasting motives for parental transfers, altruism versus exchange, in a population of migrants to France, and investigate the role of cultural values, centered upon family relations and deriving from religious beliefs, on intergenerational transfer decisions. In the full population sample the results of our analysis provide support for the altruism thesis, in that the more needy children in a family have a higher probability of receiving assistance and, more critically, transfers do not diminish with distance

from the parental home. To the contrary, children living far from their parents or residing in the origin country appear to have a higher incidence of receipt and acquire greater sums.

When we separate the migrants by religion, a rough proxy for cultural background, we find support for an altruistic motive in each of the groups. In both there is a greater likelihood of assistance being received by needy children, and in both the critical test variable, distance from the parental home, continues to refute an argument that children who live in proximity to their parents are more likely to receive assistance. The last finding detracts from an exchange motive account, which would tie transfer receipts to services provided to parents, as this would suggest greater assistance given to children who live close to the parental residence. Our empirical results therefore differ from Arrondel and Laferrere (2001) and Wolff (2000), who report larger transfers to financially better-off children, though they are consistent with McGarry and Schoeni (1995, 1997) and Dunn and Phillips (1997). Beyond these findings we note rather distinctive cultural effects that influence transfer behavior, i.e. the lesser importance of parental resources in the decision process of Muslim migrants, the larger tendency in this community to differentiate among children and, as part of this calculation, the tendency to favor sons over daughters in the allocation decision.

We hasten to point out that while our results favor altruism over exchange as the dominant parental motive, our data do not permit a test of the neutrality property of the altruistic model, as in Altonji et al (1997).²¹ Also, there are some exchange models that cannot be tested with the sort of data available to us, such as ones that postulates (or postulate ??) a lag between the financial assistance provided to children and the services required by parents. Thus, if the migrants intend to return to their origin countries in retirement (as some do) and plan to reside nearby the children currently living there, or if the respondents calculate that there is a greater likelihood of receiving services in the future from less well off children because their time costs are lower, these kinds of exchange models cannot be rejected by our findings. What we can say is that our results do not support models of contemporaneous reciprocity between parents and children as guiding parental transfer decisions.

As a final matter, we return to the importance of culture in assessing parental motives. While our conclusion from this study, based principally on the analysis of receipts by the several children in a parental household, is that a single parental motive (altruism in that case) characterizes the transfer behavior of both Muslim and non-Muslim parents, this should not be assumed to hold true across societies. There is prima facie evidence, for example, that in less developed countries children are valued for the services they can bring to the parental home and, indeed, even conceived with such ends in mind (De Voss, 1985).

One reason why sibships are large in less developed countries is that children are necessary to help farm the land, bring income to the household, and otherwise assist with the maintenance of a small family enterprise (Clay and Johnson, 1992). In the same vein, in these countries, children are often regarded by parents as representing assurances that they will be cared for in their later years (Jowett, 1991, Lillard and Willis, 1997). Such expectations are even articulated by parents, so it would not be surprising if these considerations were to enter into their calculations when contemplating transfers to offspring.

²¹ Under an altruistic motive, a euro increase in parental income together with a euro decline in a child's income should be offset by the transfer of one euro from the parent to the child. As shown in Wolff (2000), this property is strongly rejected in France.

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Table 1. Descriptive statistics of the sample, by religion

Variables	Non Muslim			Muslim			(7) All
	(1) No gift	(2) Gift ¹	(3) All	(4) No gift	(5) Gift ¹	(6) All	
<i>Financial transfers:</i>							
Receipt of transfer	0.000	1.000	0.129	0.000	1.000	0.043	0.092
<i>Characteristics of the parent:</i>							
Age	58.547	58.337	58.519	57.492	57.858	57.508	58.085
Lives with partner	0.827	0.858	0.831	0.841	0.810	0.840	0.835
Number of children at home	0.955	0.453	0.890	2.493	1.735	2.460	1.564
Number of children outside home	2.484	2.275	2.457	3.425	3.470	3.427	2.874
Years of education	7.881	10.095	8.168	3.432	4.419	3.474	6.152
Health problems	0.307	0.278	0.303	0.379	0.360	0.378	0.336
Currently working	0.394	0.449	0.401	0.277	0.324	0.279	0.348
Household's income (log)	9.701	10.032	9.744	9.446	9.510	9.449	9.617
Home owner	0.604	0.726	0.620	0.279	0.281	0.279	0.474
Duration since migration (/100)	0.349	0.359	0.350	0.323	0.323	0.323	0.339
French citizenship	0.406	0.497	0.418	0.169	0.198	0.170	0.312
Difficulties in reading French	0.398	0.229	0.376	0.669	0.636	0.668	0.501
<i>Origin country:</i>							
Northern Europe	0.078	0.190	0.092	0.000	0.000	0.000	0.053
Southern Europe	0.611	0.528	0.600	0.002	0.000	0.002	0.343
Eastern Europe	0.050	0.062	0.052	0.005	0.020	0.005	0.032
Northern Africa	0.089	0.102	0.091	0.878	0.810	0.875	0.428
Central and Southern Africa	0.059	0.026	0.055	0.031	0.036	0.031	0.045
America	0.018	0.031	0.019	0.000	0.000	0.000	0.011
Middle East	0.019	0.014	0.018	0.081	0.130	0.083	0.046
Asia	0.076	0.047	0.073	0.004	0.004	0.004	0.043
<i>Religion:</i>							
Catholic	0.702	0.695	0.701	0.000	0.000	0.000	0.400
Muslim	0.000	0.000	0.000	1.000	1.000	1.000	0.429
Protestant	0.045	0.078	0.049	0.000	0.000	0.000	0.028
Other Christian	0.055	0.057	0.056	0.000	0.000	0.000	0.032
Other religion	0.109	0.099	0.108	0.000	0.000	0.000	0.062
No religion	0.089	0.071	0.086	0.000	0.000	0.000	0.049
<i>Characteristics of the child:</i>							
Female	0.488	0.491	0.488	0.500	0.391	0.495	0.491
Age	30.928	30.956	30.932	28.661	30.111	28.723	29.983
Lives with partner	0.567	0.617	0.574	0.444	0.478	0.445	0.519
Number of children	0.866	0.809	0.858	0.806	1.166	0.821	0.842
Years of education	11.756	13.197	11.943	9.569	7.763	9.492	10.890
Occupation: Working	0.731	0.735	0.731	0.541	0.395	0.535	0.647
Student	0.102	0.121	0.105	0.135	0.119	0.134	0.117
Unemployed	0.070	0.058	0.069	0.140	0.170	0.141	0.100
Inactive	0.097	0.086	0.095	0.184	0.316	0.190	0.136
Financial status: Rich	0.348	0.334	0.346	0.208	0.111	0.204	0.285
Fair	0.524	0.476	0.518	0.579	0.447	0.574	0.542
Poor	0.127	0.190	0.136	0.212	0.443	0.222	0.173
Distance: In France, at home	0.255	0.115	0.237	0.364	0.162	0.355	0.287
In France, less than 10 kms	0.303	0.283	0.301	0.272	0.206	0.269	0.287
In France, more than 10 kms	0.350	0.427	0.360	0.240	0.162	0.237	0.307
Does not live in France	0.092	0.174	0.103	0.124	0.470	0.139	0.118
Number of observations	6836	1016	7852	5657	253	5910	13762

Source: Survey PRI 2003.

1. Receipt of transfer within past 5 years.

Table 2. Receipt of financial transfers, by parent's origin country and religion¹

Variables	Number of children	Number of families	% of receipt by a child	Mean value per recipient (euros)	
				Category midpoint	Simulated
<i>Origin country:</i>					
Europe	5881	2559	13.6	3208	3107
Northern Europe	723	318	26.7	3047	2853
Southern Europe	4720	2025	11.4	3389	3310
Eastern Europe	438	216	15.5	2238	2228
Africa	6500	1939	5.3	1889	1749
Northern Africa	5884	1681	5.3	1944	1806
Central and Southern Africa	616	258	5.7	1397	1243
America	152	69	21.1	2028	1949
Middle-East	638	197	7.4	1709	1714
Asia	591	235	8.3	2227	1941
<i>Religion:</i>					
Non-Muslim	7852	3359	12.9	3120	3002
Catholic	5505	2364	12.8	3210	3101
Protestant	386	160	20.5	2965	2779
Other Christian	437	212	13.3	2227	2171
Other	847	351	11.9	2810	2787
No religion	677	272	10.6	3570	3240
Muslim	5910	1640	4.3	1147	1053
Total	13762	4999	9.2	2727	2613

Source: Survey PRI 2003.

1. Receipt of transfer within past five years.

Table 3. Parental reasons for making financial transfers

Reason for making transfer	(1) All (N=1269)		(2) Muslim (N=253)		(3) Non-muslim (N=1016)	
	% giving	Amount	% giving	Amount	% giving	Amount
Help because of financial need	42.9	1555	73.1	905	35.4	1890
Help to buy a dwelling	13.8	7575	6.3	2865	15.6	8050
Help for other non-housing expenditures	6.9	2145	2.4	1540	8.0	2190
“Happy” family event	8.6	1135	3.6	770	9.8	1170
Help for schooling expenditures	6.9	3080	4.0	2420	7.6	3165
To make a gift	15.9	1180	7.5	1205	18.0	1175
Other	5.0	7510	3.2	1980	5.5	8300
Total	100.0	2735	100.0	1155	100.0	3130

Source: Survey PRI 2003.

The sample is restricted to positive transfers.

Table 4. Occurrence of unequal and equal sharing

A. All

Number of children per family	(1) Number of families	(2) No recipient	(3) One child at least, but not all	(4) All children receive	(5) (3)/(4)
1	1164	87.2	-	12.8	-
2	1601	81.4	7.7	10.8	0.71
3	989	82.1	11.9	6.0	1.98
4	559	85.2	12.0	2.9	4.14
More than 2	3149	82.3	9.8	7.9	1.24

B. Muslim

Number of children per family	Number of families	No recipient	One recipient at least, but not all	All recipient	(3)/(4)
1	253	93.7	-	6.3	-
2	329	91.8	5.5	2.7	2.04
3	304	88.5	10.5	1.0	10.50
4	274	89.4	9.9	0.7	14.14
More than 2	907	90.0	8.5	1.5	5.67

C. Non Muslim

Number of children per family	Number of families	No recipient	One recipient at least, but not all	All recipient	(3)/(4)
1	911	85.4	-	14.6	-
2	1272	78.8	8.3	12.9	0.64
3	685	79.3	12.6	8.2	1.54
4	285	81.1	14.0	4.9	2.86
More than 2	2242	79.2	10.3	10.4	0.99

Source: Survey PRI 2003.

Families with more than 4 children are excluded from the sample.

Table 5. Estimates for transfers received by children

Variables	(1) Random effects Probit	(2) Conditional (Fixed effects) Logit	Random effects Tobit		(5) Interval regression	(6) Probit for unequal sharing
			(3) Midpoint	(4) Simulated		
Constant	-20.862*** (5.58)		-97.835*** (5.58)	-94.657*** (5.79)	-7.505*** (5.11)	-4.916 (1.05)
<i>Characteristics of the parent :</i>						
Age	0.479*** (3.71)		2.176*** (3.57)	2.109*** (3.71)	0.194*** (3.78)	0.169 (1.06)
Age squared (10 ⁻²)	-0.415*** (3.70)		-1.900*** (3.59)	-1.831*** (3.72)	-0.164*** (3.67)	-0.140 (1.03)
Lives with partner	-0.005 (0.04)		-0.200 (0.30)	-0.232 (0.37)	0.045 (0.80)	-0.254 (1.42)
Number of children at home	-0.311*** (6.29)		-1.486*** (6.38)	-1.332*** (5.70)	-0.087*** (7.53)	0.624*** (6.45)
Number of children outside home	-0.159*** (5.36)		-0.750*** (5.49)	-0.756*** (5.76)	-0.084*** (7.44)	0.401*** (5.01)
Years of education	0.049*** (4.11)		0.211*** (3.74)	0.196*** (3.75)	0.029*** (4.45)	-0.031** (2.25)
Health problems	0.062 (0.58)		0.288 (0.56)	0.270 (0.56)	-0.039 (0.88)	0.021 (0.16)
Currently working	0.017 (0.14)		0.052 (0.10)	0.043 (0.08)	-0.022 (0.39)	-0.088 (0.63)
Household's income (log)	0.288*** (4.57)		1.556*** (5.21)	1.526*** (5.28)	0.176*** (6.62)	-0.048 (0.56)
Home owner	0.251** (2.22)		1.328** (2.41)	1.270** (2.46)	0.132*** (2.95)	0.107 (0.72)
Duration since migration	1.135** (2.20)		5.762*** (2.70)	5.111** (2.47)	0.314 (1.12)	-0.718 (1.26)
French citizenship	0.025 (0.22)		0.391 (0.77)	0.471 (0.96)	0.060 (1.11)	-0.042 (0.33)
Difficulties in reading French	-0.410*** (3.24)		-2.089*** (3.51)	-1.930*** (3.49)	-0.122*** (2.66)	-0.055 (0.35)
Muslim	-0.248* (1.70)		-1.336** (1.98)	-1.437** (2.19)	-0.082* (1.82)	0.516** (2.48)
<i>Characteristics of the child :</i>						
Female	-0.249*** (3.92)	-0.617*** (4.35)	-1.098*** (3.82)	-1.042*** (3.80)	-0.046 (1.37)	
Age	0.033 (0.74)	-0.037 (0.39)	0.147 (0.71)	0.129 (0.66)	0.010 (0.52)	
Age squared (10 ⁻²)	-0.044 (0.67)	0.076 (0.53)	-0.211 (0.67)	-0.193 (0.64)	-0.014 (0.49)	
Lives with partner	-0.102 (1.23)	-0.129 (0.70)	-0.490 (1.32)	-0.415 (1.17)	0.009 (0.19)	
Number of children	0.016 (0.49)	0.022 (0.35)	0.016 (0.10)	0.011 (0.08)	-0.011 (0.65)	
Years of education	0.006 (0.75)	0.009 (0.55)	0.035 (0.96)	0.035 (1.01)	0.007** (2.05)	
Occupation: Student (ref: Working)	0.575*** (4.57)	1.015*** (3.67)	2.614*** (4.63)	2.547*** (4.75)	0.306*** (4.56)	
Unemployed	0.211* (1.79)	0.329 (1.31)	1.052* (1.92)	1.025* (1.95)	0.048 (0.93)	
Inactive	0.238** (2.39)	0.488** (2.42)	1.236*** (2.63)	1.137** (2.52)	0.020 (0.36)	
Financial status: Fair (ref: Rich)	0.228*** (2.75)	0.543*** (2.75)	1.063*** (2.82)	1.030*** (2.87)	0.099** (2.24)	
Poor	1.018*** (9.46)	1.640*** (6.92)	4.797*** (9.84)	4.655*** (9.99)	0.506*** (7.75)	
Distance: In France, less than 10 kms (ref: In France, at home)	0.727*** (5.97)	0.928*** (3.56)	3.457*** (6.11)	3.310*** (6.15)	0.401*** (7.03)	
In France, more than 10 kms	0.875*** (7.40)	1.055*** (4.24)	4.077*** (7.48)	3.924*** (7.56)	0.498*** (8.70)	
Does not live in France	1.620*** (11.49)	1.960*** (6.51)	7.456*** (11.45)	7.158*** (11.48)	0.972*** (11.12)	
Number of observations	13762	1449	13762	13762	13762	557
Number of families	4999	401	4999	4999	4999	557
Log likelihood	-3019.3	-441.5	-6557.6	-6487.8	-27670.0	-325.6

Source: Survey PRI 2003.

Absolute values of t-statistics are in parentheses. Significant levels are respectively 1%(***), 5% (**), and 10% (*).

Table 6. Estimates for transfers received by children, by religion

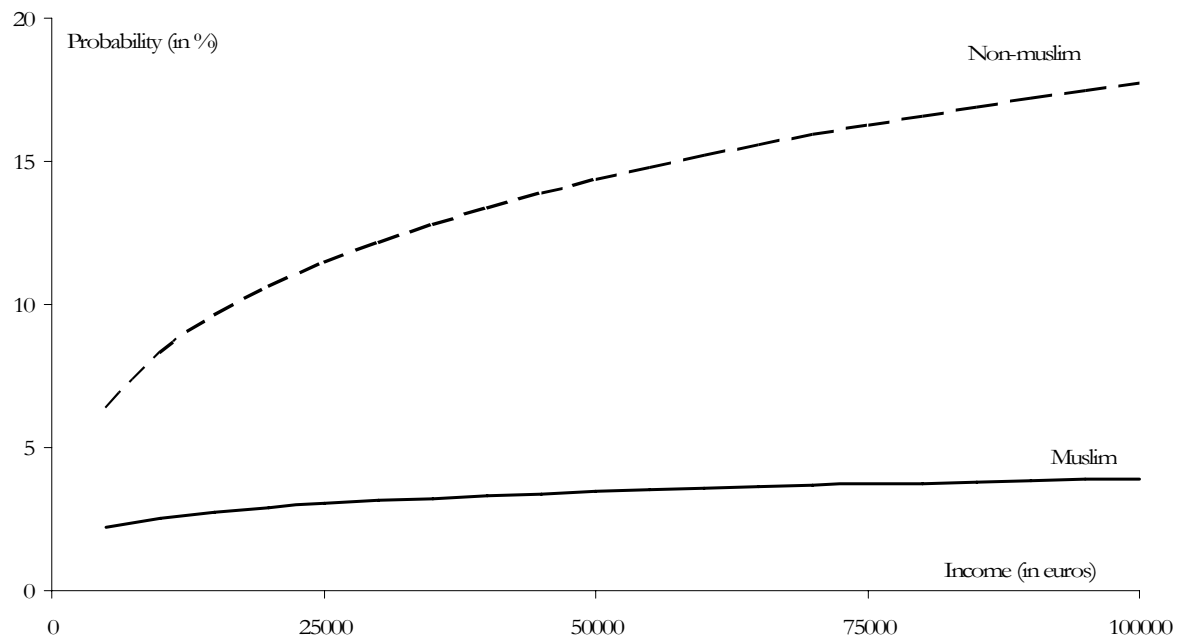
Variable	Non muslim	Muslim
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	(1) Random effects Probit	(2) Fixed effects Logit	(3) Random effects Tobit	(4) Random effects Probit	(5) Fixed effects Logit	(6) Random effects Tobit
Constant	-30.710*** (5.76)		-97.117*** (5.43)	-3.592 (0.78)		-25.947 (0.84)
<i>Characteristics of the parent :</i>						
Age	0.777*** (4.36)		2.216*** (3.57)	-0.057 (0.36)		-0.320 (0.30)
Age squared (10 ⁻²)	-0.678*** (4.39)		-1.913*** (3.58)	0.049 (0.35)		0.275 (0.30)
Lives with partner	0.068 (0.30)		0.052 (0.08)	-0.005 (0.03)		0.182 (0.16)
Number of children at home	-0.619*** (5.69)		-2.167*** (8.16)	-0.105** (2.46)		-0.712** (2.53)
Number of children outside home	-0.159*** (4.25)		-0.551*** (4.06)	-0.134*** (3.46)		-0.859*** (3.34)
Years of education	0.063*** (4.00)		0.138*** (2.73)	0.047*** (2.62)		0.302*** (2.59)
Health problems	0.077 (0.50)		0.033 (0.06)	0.085 (0.61)		0.583 (0.63)
Currently working	-0.064 (0.37)		-0.304 (0.54)	0.028 (0.17)		0.450 (0.43)
Household's income (log)	0.381*** (4.64)		1.643*** (5.88)	0.144* (1.80)		0.966* (1.83)
Home owner	0.256 (1.37)		1.403*** (2.59)	0.161 (1.05)		1.137 (1.11)
Duration since migration	0.662 (1.00)		3.226 (1.55)	0.855 (1.02)		5.620 (1.03)
French citizenship	-0.071 (0.46)		-0.051 (0.11)	0.192 (1.07)		1.491 (1.23)
Difficulties in reading French	-0.876*** (4.73)		-3.151*** (5.52)	0.108 (0.69)		0.583 (0.56)
<i>Characteristics of the child :</i>						
Female	-0.120 (1.44)	-0.364** (2.02)	-0.373 (1.30)	-0.496*** (4.45)	-1.028*** (4.12)	-3.319*** (4.58)
Age	0.054 (0.84)	0.022 (0.17)	0.210 (0.94)	-0.009 (0.14)	-0.024 (0.16)	-0.082 (0.20)
Age squared (10 ⁻²)	-0.086 (0.88)	-0.039 (0.20)	-0.399 (1.17)	0.025 (0.25)	0.063 (0.28)	0.167 (0.26)
Lives with partner	-0.113 (1.01)	-0.144 (0.59)	-0.288 (0.77)	-0.138 (1.03)	-0.050 (0.16)	-1.032 (1.17)
Number of children	-0.015 (0.29)	-0.062 (0.56)	-0.131 (0.73)	0.050 (1.20)	0.041 (0.49)	0.356 (1.30)
Years of education	0.017 (1.51)	0.022 (0.90)	0.043 (1.13)	-0.005 (0.45)	-0.004 (0.16)	-0.021 (0.32)
Occupation: Student (ref: Working)	0.606*** (3.51)	1.008*** (2.71)	2.547*** (4.33)	0.509*** (2.76)	1.083** (2.51)	3.244*** (2.72)
Unemployed	-0.023 (0.12)	-0.103 (0.25)	0.309 (0.48)	0.265* (1.74)	0.339 (0.95)	1.683* (1.68)
Inactive	0.350** (2.47)	0.767*** (2.76)	1.352*** (2.64)	0.176 (1.23)	0.241 (0.74)	0.955 (1.02)
Financial status: Fair (ref: Rich)	0.226** (2.13)	0.367 (1.58)	0.734** (2.07)	0.383** (2.27)	1.064** (2.44)	2.383** (2.19)
Poor	1.096*** (7.66)	1.545*** (5.17)	3.885*** (7.96)	0.993*** (5.26)	1.994*** (4.25)	6.538*** (5.33)
Distance: In France, less than 10 kms (ref: In France, at home)	0.773*** (4.49)	1.105*** (3.24)	3.016*** (5.14)	0.649*** (3.54)	0.687 (1.59)	4.408*** (3.60)
In France, more than 10 kms	0.952*** (5.79)	1.249*** (3.81)	3.470*** (6.08)	0.652*** (3.57)	0.782* (1.86)	4.321*** (3.57)
Does not live in France	1.258*** (6.01)	1.398*** (3.70)	4.626*** (6.79)	1.942*** (9.07)	3.071*** (5.53)	13.031*** (9.04)
Number of observations	7852	790	7852	5910	659	5910
Number of families	3359	258	3359	1640	143	1640
Log likelihood	-2148.6	-250.0	-4925.6	-795.9	-175.1	-1474.5

Source: Survey PRI 2003.

Absolute values of t-statistics are in parentheses. Significance levels are respectively 1% (***), 5% (**), and 10% (*).

Figure 1. The impact of parental income on the probability of a gift receipt, by religion



Source: Survey PRI 2003.

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