# Old age with and without children: economic implications in Italy* 

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#### Abstract

A cross sectional data source, the Bank of Italy Survey on Household Income and Wealth (SHIW) of the years 2000 and 2002, is used to asses the association between the economic conditions in one's old age and a few covariates, among which past fertility, marital status and living arrangements. For an aged person, having had children does not have any clear impact on current economic performance, except that it is associated with fewer assets. However, ceteris paribus, having (adult) co-residing children corresponds to worse economic conditions, both objectively (equivalent income, poverty, assets) and subjectively. In short, own children do not seem to protect from poverty in old age (and may make things worse). Prospects are better when there are other grown-up members in the household (especially if they are males), when education is high, and when the household resides in the North of Italy.


Keywords: Elderly people, Economic well-being, Poverty, Fertility, Living arrangement.

## 1. Introduction

Ageing has become a major demographic topic, and its several facets have been frequently investigated: e.g. the quality of life of older adults, their likely future demand for formal and informal support, their socio-economic conditions, health status, and living arrangements, and, increasingly, the availability and composition of the family network that surrounds them (see, e.g., Strain, Payne 1992; Pezzin, Steinberg Schone 1999, GENUS 2003).

Many studies have assessed the role of children as a source of support and care for the aged people, but only a few of them have empirically investigated the relationship between the number of children and the economic well-being of the older population in the developed countries. In this study, we are specifically interested in evaluating whether past fertility has an impact on the current economic well-being of the old people, both when their (grown up) children live with them, and when they live elsewhere.

The basic research questions that drive us are: who is better off in old age, parents or nonparents? Does the number of children count? Does co-residence with one's own (grown up) children matter? What economic variables, if any, are mostly affected (e.g. income, assets, relative poverty status, ...)? And, finally, how can one take into account all of the possible confounding variables?

There is a relative scarcity of adequate micro-data to investigate this topic. On the one hand, economic surveys typically neglect to gather information on past fertility, and only inform us on the current composition of the household. On the other hand, social and demographic surveys usually prove very inefficient in providing information on income and wealth. In particular, in Italy, data on both economic conditions and number of surviving children - either co-resident or not - have become available just very recently, since the 2000 wave of the SHIW (Italian Survey on Household Income and Wealth). We should perhaps make it clear from the start that, although our analysis will keep under control as many potentially relevant variables as the data set allows, our (cross-sectional) data only permit us to talk of "meaningful associations" between covariates, and do not prove the cause-effect relationship that we suspect to exist between past fertility (decided in
one's adult years) and current socio-economic conditions, in old age. Future research, with better data, will hopefully scrutinise more in depth the causal mechanisms that, we submit, lead to the statistical associations that emerge from our analysis.

## 2. Theoretical background and previous research

In most cultures, children surviving to adulthood are seen as a potential source of support for their aged parents: they provide emotional help (Friedman et al. 1994), constitute a sort of insurance against dependency (Wenger, 2001), may protect from economic hardship (Cigno, 1991), and frequently play more than just one part (Legrand et al. 2003; Lillard, Willis 1997). Indeed, their potentially protecting role has frequently been used as an explanation for fertility itself - the so called "old-age security motive" (Nugent 1985). In practice, however, empirical research does not provide unique indications on the relationship between the presence of children and the economic well-being of the the elders. Caldwell (1982) thought that the wealth would flow upwards, from the young to the old, but things are in fact more complicate than this interpretation suggests. In the first place, one should consider co-residence, which is still very high in Italy, where about a third of the over-65 parents live with their children (ISTAT 2001). Increasingly, even in Italy, co-residence is being substituted by independently living (as elsewhere, like the US, for instance - see McGarry, Schoeni 2000), although proximity is greatly appreciated, and more than a third of non co-residing old parents live within a kilometre from at least one of their children (ISTAT 2001; Tomassini, Wolf, Rosina 2003; Tomassini et alii 2004).
Now, independent living translates into lower exchanges. Besides, with or without coresidence, the exchange is normally on a mutual basis (e.g. Couch, Daly, Wolf 1999). Finally, and most importantly, the prevalent direction is apparently downwards (ISTAT 2001): the elders seem to give more than they receive (for a different view, see Rendall, Bachieva 1998). This happens both in the developing societies (e.g. Stecklov 1997; Lee, Kramer 2002) and, privately, in modern settings, although in the latter case the existence of an extensive social security system (with income flowing upwards, towards the older adults) more than compensates for the private downwards transfers (Lee 2000, 2003). In
several modern societies, pension and health assistance systems are financed in a way (e.g. on a pay-as-you-go basis), which is not actuarially equitable: the average individual receives more (especially in old age), than he or she has paid for (almost exclusively in his or her adult years), and the system proves sustainable only if the age pyramid remains favourable. This means, among other things, that childless elders - and, more generally, people with fewer-than-average children - benefit from social security services for which they have not paid their full share, either as direct contributions or in terms of the formation of the following generation (Demeny 1986; Sartor 2004).
This brings into question the issue of how costly it is to raise up a child, from conception to economic independency, which is still controversial, despite the huge literature that has developed around it. Estimates fluctuate considerably, also because they seem to depend on several variables (e.g. age at parenthood, birth order, socio-economic status of the household, etc.), and, most worryingly, on how measurement is carried out (De Santis 2004). However, to give a rough idea, direct costs can be estimated at about $20 \%$ of the budget of a childless couple, per child, per year of economic dependency. On top of this, there is also a substantial amount of unearned income to consider, possibly about 20 to $30 \%$ of the potential lifetime earnings of a woman (Davies, Joshi, Peronaci 2000; Joshi 2002; Di Pino 2004). These considerations suggest that, from an economic point of view, childless and low-fertility elders, who escaped (part of) these costs, should be better off than parents, at least in economic terms.

However, there are also possible routes leading to the opposite outcome. People with few or no children are usually found to spend more and save less during their working lives (Bloom and Pebley 1982). Besides, childless men are probably less motivated to increase their labour supply, as fathers usually do upon the birth of their children (Palomba, Sabbadini 1994). As a result, we might expect that the older adults with low parity have more assets and pension income than those with larger offspring. Further, the absence (or scarcity) of kin support may force low-fertility elders to purchase assistance on the market, and this is expensive, even if, sometimes, publicly subsidized. Finally, low-fertility elders may end up living in smaller households, with higher unitary costs, with less or no economic support from their grown up children in case of need. In short, the impact of the
number (or the mere presence) of children on the relative economic well being of an elder is not self-evident. In any empirical study on this subject, one should keep marital status under control, because, due to selection at marriage (Sigle-Rushton, McLanahan 2002) and co-operation between long-term partners (Becker, 1981; Waite, Lehrer 2003), the presence of a spouse is often found to be beneficial (Wenger 2001), and the economic conditions are typically worse for the childless older adults who are unmarried or divorced.

## 3. Dataset

In order to asses how things currently stand in Italy in this respect, we will exploit the Italian Survey on Household Income and Wealth (SHIW), which is a cross-sectional survey ${ }^{1}$ carried out every other year by the Bank of Italy, in order to collect detailed information on the (demographic and) economic characteristics of the Italian households. The SHIW is based on a representative sample of the Italian resident population, with a two-stage sampling procedure: first municipalities and then households. Each time, the survey covers about 22 thousand individuals and 8 thousand households, defined as a group of persons related by blood, marriage or adoption and sharing the same dwelling. In 2000, and then again in 2002, the SHIW also asked a question on the number of non coresident children: this, together with the number of co-resident children, gives us the total number of children still surviving at the time of the survey, which is what we need for our study. After properly inflating the monetary values of the year 2000, so as to translate them into their 2002 equivalent, we pooled the two surveys of 2000 and 2002, in order to increase the sample size, which finally resulted in 8,129 people aged 65 or more, plus those who happened to live with them. Unfortunately, another question of interest, on "subjective economic well being" (see below), was first introduced only in year 2002: in this case, no pooling is possible, and we will use exclusively the data coming from the 2002 survey (4,299 elder people).

[^0]Notice that we only have information on the population living in private households, and we disregard completely the individuals who live in residential institutions or collective households. This introduces a potentially serious bias, because, among the elders, the chances of being institutionalised depend, among other things (health, in particular), on the fact of having at least one surviving child. (Grundy 1996; Kendig 1986). In Italy, however, this limitation appears to be relatively minor, because only about $1.1 \%$ of old men and $2.4 \%$ of old women live in collective households (ISTAT 2001, http://dawinci.istat.it/MD/). More generally, however, readers should keep in mind that we concentrate on persons who are still alive to infer something on the causal chain that leads to better or worse economic outcome in old age (65+). As age progresses, selection plays a more and more important role, which we cannot keep under control. If the connections that we are studying differ significantly between those who survive until late and those who die earlier, our results may be misleading, and we therefore caution our readers to interpret them with care.

## 4. Variables

Most of the variables that we will use for our analysis are self evident, but some need a few words of explanation. First thing to note is that our data source is cross-sectional: the several variables that refer to the past, and that we introduce in our models, derive from retrospective questions, which are unfortunately subject to recollection biases and selective omissions. Although we controlled as much as possible for these problems (e.g., by comparing the observable characteristics of those who did or did not answer certain questions) and did not detect any particular form of distortion, our results should be considered with care.

Our main interest is concentrated on those who are now aged 65 or more (old people). We have some information on their background, which includes the number of living siblings they still have ${ }^{2}$, and how educated their parents were ${ }^{3}$. We have also information on their

[^1]current household composition, distinguishing between co-resident children and other members of the household in which they live. When we talk of "grown up members" in these households, we refer only to all those who are aged 20 or more.

For the elders themselves, for their parents, and for all the grown up family members, we consider education, which we translated into the number of years theoretically necessary to obtain the specific degree reported for each individual. We can therefore treat education as a standard discrete quantitative variable. We also computed a variable called "household education", which averages the number of years spent at school by all the grown up members in the elders' current household: we found this a very convenient way of synthesising the general social level of each household.

Fertility is not asked directly. The household roster gives us the number of co-residing children and, for the elders who are household heads or spouses, we also know the number of children living elsewhere. However the old adults coded 4 (=parents) have by definition at least one child; the elders coded 5 (=other relative) are frequently parents-in-law (and we assumed that they are, if the spouse is present, and if the age gap is compatible); in all the other cases (very few, actually), we assumed that no living child was available. In all cases, notice that we only consider living children, not total, ever-had children: given the low levels of mortality in Italy, both currently and in the recent past, this should not introduce too great a bias in our analysis.

Household income is net per year, always expressed in 2002 Euros, by inflating the values for the 2000 round: it is obtained as the sum of all types of net yearly personal income of all household members. In the regression, we sometimes found it more useful to consider its logarithm, instead, so as to minimise the impact of abnormally rich respondents.

Equivalent household income is household income divided by the OECD modified equivalence scale, which gives weight 1 to the first adult, 0.7 to all other adults, and 0.3 to all children (up to 14 years of age).

[^2]Poverty is relative income poverty. As a cut-off point, we chose $60 \%$ of the median household equivalent income: an arbitrary, but frequent choice.

Household assets are the sum of personal assets of all household members, and they include, among other things, the (estimated) monetary value of own homes less residual mortgage and less other types of debt, if any. In order to obtain a per-capita evaluation of the worth of assets, however, we decided not to use the OECD modified equivalence scale in this case, and we simply divided the household total by the number of household members. The idea is that assets do not benefit from the same economies of scale that are possible in consumption, and, as a reserve capital, the potential service they render is better approximated by a strict per-capita measure. In both cases (income and assets) we are implicitly assuming that households pool their economic resources to satisfy their actual and potential needs, which we feel corresponds fairly closely to the Italian reality.
The question on subjective evaluation of the household economic condition (asked in 2002 only, question number E09) reads "Given the available income, how does your household manage to satisfy her needs?", and the possible answers are "1) very hardly; 2) hardly; 3) with some difficulty; 4) with relative ease; 5) easily; 6) very easily". In order to minimise random fluctuations, we treated answers 5 and 6 as if they belonged to the same category.

## 5. Descriptive statistics

Let us first take a general look at the socio-economic characteristics of our sample, focusing in particular on the older segment (65+).

There are about 4 thousand elders in each survey (more than 8 thousand overall), although frequencies decrease with age. The older adults in Italy are nor economically bad off, on average: their average personal income exceeds 12,600 Euros per year (in 2002 prices), and is only slightly lower than that of the population of working age.

Beyond income, the older people frequently own the house they inhabit (in more than $70 \%$ of cases), and have savings of various kinds, so that, overall, the worth of their assets, not far from 90 thousand euros, is considerably higher than that of the rest of the population (fig. 2).

But while their average economic position appears to be good, one should also consider the variability of the situations. The older people, for instance, are not totally sheltered from poverty, especially not past the age of 80 (Figure 3).

There is also considerable variation according to gender (men earn almost twice as much as women, on average) and relation to the household's head (Table 1).

The great majority of the elders are either head or spouse of the household head, but there are also a non-negligible (12.7\%) proportion of other positions, basically parent, or parent-in-law. Their presence causes a problem with our analysis, for the following reason: according to SHIW rules, the reference person in the household (first in the household roster - here simply called household head) is the one who contributes most to the household budget, i.e. the one who earns more. So "heads and spouses" are selected in more than one sense: they are younger than average (about 73, as against about 80 in the other categories), they live in smaller households (2.3. vs. 3.8 for men; 1.8 vs. 3.4 for women), they earn more than average (especially the women who are head of their household: 13 as against 7 thousand euros per years), and they live in households with comparable equivalent incomes (slightly lower for female heads, actually), but higher wealth. The bias reverberates on co-residing (adult) children: if they earn relatively little, they are coded with " 3 "; if they are the main breadwinners, they appear as " 1 ", while their old parents are coded " 4 ". Unfortunately, the questions on the family background (number of living siblings, a few characteristics of their ascendants, including education) and fertility (number of living children outside the household) have been asked of heads and spouses only. Therefore, in the analysis that follows, we will be forced to choose between a "complete" study with a biased sample (i.e. with full information on family background and number of living children, but focused on relatively rich elders), and an incomplete one with a representative sample (no family background and only indirect estimate of the presence of children, but with all the elders included). In practice, however, this is probably less a problem than it appears, as the analyses below, conducted in part on all of the older people and in part and on various sub-samples, will show.

Finally, for the 2002 round only, let us consider the question on subjective well being. About $28 \%$ of the interviewed elders manage to make ends meet only hardly, or very hardly
(table 2). Their distribution is only partly coincident with that based on equivalent household income, the "hard" economic indicator used for the first part of our analysis: the correlation between the two series is about 47 .

## 6. Regression models

The temporal dimension is crucial in our analysis on the connection between the current economic situation of the elderly and their past demographic behaviour, including fertility. Let us distinguish between two types of past. The remote past refers to the time when our elders were young or adolescents: we are interested in their family background at that time (parents' education and number of siblings). At a later stage, more or less grown into adulthood, these people took a few decisions with long-lasting impact, notably in the fields of education, marriage, and fertility ${ }^{4}$. These decisions are reflected in the current situation of our elders, in terms, for instance, of living arrangements and economic conditions.

There are a number of interactions, at various levels, in these trajectories: most of them, unfortunately, are not documented in our data, or not well, and will go unnoticed, like past labour activity, for instance. But for some of them we have something to say. Since our main interest is on the (causal) connection between (past) fertility and (current) economic conditions, and since these have some covariates in common, the ideal would have been to perform an instrumental analysis, and consider only the net effect of the former on the latter. This, unfortunately, proved impossible, because all the instruments we tried for fertility were also closely linked to the current economic conditions, thus violating one of the basic conditions for the validity of this methodology.
We therefore resorted to a path analysis: the direct link between (past) fertility and (current) economic conditions does not emerge as clearly as we would have liked, but one can better grasp the general, and complex, picture of the interconnections between the various dimensions considered here. Figure 4, where the basic elements appear more or less in

[^3]chronological order, should help readers understand the type of interpreting scheme that we have in mind.

### 6.1 Complete analysis, select old people (dropping cases with missing answers)

Let us start with the 5,177 old people who are heads or spouses, and who answered the question on family background: this is our complete, but potentially biased analysis, because, as mentioned, the elders coded " 1 " or " 2 " in the household roster tend to be richer than average. Table 3.1 gives us a picture of the socio-demographic background of this group. Panel $A$ says that the educational level reached by our elders (expressed in number of years profitably spent at school) depends very much on the education of their parents (average between numbers of years both parents spent at school) and, negatively, on the number of siblings they have. This confirms the importance of the intergenerational transmission of behaviours and values, but also stresses the role of opportunities and constraints: more siblings, some 70 or 80 years ago, meant fewer resources to invest in the formation of the "human capital" of each child.

Panel $B$ (table 3.1) says that the number of living children these 5177 , now aged people, individuals had in their adult years depends negatively on their own and on their parents' education, but positively on the number of their siblings. Once again the importance of family background stands out very clearly - at least for the generations considered here. Notice that these are all aged people, with complete fertility: the variable "age" is introduced to control not for timing, but for possible generational effects (and also for the mortality of siblings), which, however, do no appear to be meaningful, or, at least, not in the simple (linear) way that we consider here.

Panel $C$ (table 3.1) confirms that there is a very close connection between the general educational level of the household (average of all grown up persons) and the personal education of the elders that we are considering. In part this is spurious (the individual is him/herself part of the household), but we verified that the relationship holds also if run "properly" (i.e., education of the aged members vs. education of the other adult members in
the household - not shown here). We keep the relation in this form because we need household variables in this analysis.

We can now move to table 3.2, which "explains" the economic outcome for these old people, considering the three indicators we introduced before: a) relative poverty, b) (log of) equivalent household income, and c) per-capita assets. In all the three cases, the results are very consistent, and can be summarised as follows. First, those who live in the South of Italy are worse off: in part, this would be mitigated if one took regional price levels into account (because it is cheaper to live in the South), but this finding is consistent with what is amply know of geographical economic differences in Italy. Second, a higher educational level is beneficial: both that of the current household (average of all grown up members) and that of the ancestors. Third, the higher the percentage of males among the grown up members of the household, the better the economic conditions of the household, because, as we saw before, personal income is higher for men than for women.

Fourth: children are systematically associated with a worse economic performance of the elders, in all possible senses. If we consider the number of living children (regardless of where they live), we can see that, ceteris paribus, the more one has, the more likely it is for him/her to end up in poverty, and to have a lower household equivalent income and fewer assets $^{5}$. If at least one of these children lives in the same household ${ }^{6}$ as his/her elder parent, than there is an additional, and strong, negative effect: a higher risk of poverty, and fewer resources in terms of income and value of assets.

Other covariates exert a more nuanced effect. Take marital status for instance: in terms of flow variables (poverty risk and equivalent income), the widowed are apparently the best off, closely followed by the married. The separated come third, with lower equivalent income, but also less frequent poverty ${ }^{7}$, and the unmarried, our reference category, are

[^4]always the worst off ${ }^{8}$. When it comes to assets however (Table 3.2, panel C), it is only the widowed who are clearly better off than all the remaining categories.
Household dimension affects economic well-being, but our data suggest that it is better to split this variable in two. Remember that our standard of reference is a single older adult: now, as we saw before, the presence of children, even if they are grown up, always exerts a negative impact on the economic sphere. Apart from own children, the presence of other grown up members in the household is mainly beneficial in terms of income (higher equivalent income and less poverty), but not in terms of assets ${ }^{9}$.
Consistent results (not shown here) have been obtained using the Carbonaro equivalence scale (instead of the OECD modified one), which does not make any distinctions between adult and children components in the household: thus estimates seem to be robust regardless the equivalence scale adopted.

In a second step, we replicate the analysis on the elders who are heads or spouses (as before), but who did not answer the question on their parents' education. This increases the size of our sample to 7119 , and makes it more representative: the general socio-economic status is now lower than before, and, for instance, the reference equivalent income decreases from about 16 to about 15.4 thousand euros per year. On the other hand, this deprives of a useful variable, which reduces the goodness of fit of our models.

The results of path analysis (not presented here) are basically the same that we saw before for the 5,177 individuals with complete information: all the variables have the same sign and virtually the same absolute value, with the only exception of the presence of other grown up members in the household (either the spouse or someone else), which now definitely reduces the value of the assets in per-capita terms.

Therefore, the exclusion of individuals with incomplete information on family background appears to be selective in terms of their own characteristics (those who provide complete information appear to be of higher socio-economic status, on average), but not in terms of

[^5]the connections we are studying here. In particular, marriage appears to be "protective" in economic terms (or the married are favourably selected from the start: we cannot distinguish between these two interpretations with our data), and children - especially coresiding children - are rather a burden than an aid even in their adult years.

### 6.3 Incomplete analysis, all the elders

Let us now move to the analysis of the economic situation of all the the elders in our sample, i.e. including those who are not household heads, or spouses. We improve in terms of representativeness, with 8,129 aged individuals now under scrutiny, but lose in terms of family background (no information on parents or siblings), and therefore in the completeness of the analysis. We also lose in terms of fertility, because, as readers may remember, for all the elders coded " 3 " or higher in the household roster, we no longer know how many children they have: we can at best infer if they have at least one, and if they live with him or her. One of our variables, therefore, changes from "number of children" to "being or not being parent". Our results, presented in Table 4.1 and 4.2, are now less complete, but also somewhat different from before, which is worth considering.

When the analysis is carried out on all the elders ( 65 and over), being a parent in itself is no longer associated with a higher risk of poverty or a lower equivalent income, although assets remain lower. What appeared in the previous tables was therefore most probably due to the implicit sample selection that derived from considering only household heads and their spouses. On the other hand, our data confirm that if an elder still has (grown up) children living with him or her, the average prevalence of poverty increases (by about $5 \%$ ), equivalent income diminishes (by about 2 thousand euros per year), and so do assets per head (by about 58 thousand Euros). This seems to reinforce the idea that, in Italy, it is the old parents who support their grown up children in economic terms, rather than vice versa. The analysis of the average earnings of the young adults, who do or do not live with their parents (not shown here), reveals that those who live independently have, perhaps not surprisingly, higher earnings. Once again, this is consistent with the idea that a young adult
would rather live on his or her own, and accepts to remain in his or her parental home only if forced by lack of resources, and not in order to sustain their poor, old parents.

The other variables preserve basically the signs we saw before. Notice, however, that the presence of other grown-up persons in the household (the spouse, or somebody else, or both figures) lowers per capita assets (by about 50 to 60 thousand euros) and equivalent income (by about 1000 euros per year), but protects from poverty (the average prevalence is about $6 \%$ lower). In short, there are fewer extremes in this group: fewer are very rich (and outliers on the right of the income distributions inflate the average) and fewer are very poor. Notice, also, that the separated and divorced start to emerge as a group with economic difficulties: more poverty, lower income and fewer assets. None of the coefficients is particularly meaningful, statistically speaking, but they all point in the same direction.

### 6.4 Subjective economic well being: all the elders, 2002 only

Finally, the 2002 round of the SHIW included a question on subjective economic well being, which can be treated in the same way as before, if we take the liberty of considering the answers to this question as a simple discrete variable ${ }^{10}$. We have now information on 4,299 aged individuals (all the elders of the 2002 round), and the results are shown in table 5.1 and 5.2.

The tables confirm some of the preceding findings, and introduce some new. Apparently, it is the separated and divorced who live in the worst subjectively perceived economic conditions. This sort of "depression" matches only loosely our findings on objective economic conditions described above, where they appeared to be just slightly worse than average, and is possibly related to their feeling of loneliness. The same effect can be traced among widowers and widows: in "objective" terms they are slightly better off than the never married, our reference category (cf. Table 4.2), but it is more frequently for them to judge their own economic resources insufficient (Table 5.2). Indeed, the presence of other

[^6]grown up members in the household is beneficial in this respect, although we saw before that they lower the equivalent household income (but protect from poverty see Table 4.2). Instead, the presence of (grown up) children in the household is, once again, "harmful" in this respect, and is associated with a deeper feeling of insufficiency of the available economic means. Note that this is different from "being a parent", which, in itself, is scarcely related to this indicator, and, in case, tends to show a generally better feeling of economic security among parents than among non-parents.

## 7. Discussion

Several caveats surround our analysis, and it is perhaps worth reminding a few of them here: selectivity may operate at various levels; the true causal chain is unknown, and the one that we suggest here may be, at least in part, abusive; the data are not longitudinal, and the tentative time sequence that we imposed on them does not necessarily correspond to reality; etc.

However, a few, and in our opinion important conclusions stand out from this study. The first is that the natural tendency to concentrate on the elders for whom our database provides more information may be misleading: these old people (household heads and their spouses) are selected in various respects, in terms of household composition, marital status, and socio-economic characteristics. The alternative is to try to keep all the elders under observation: this leads to analyses based on fewer explanatory and less focused dependent variables, and proves therefore less precise. We tried both of them, and ventured a few inferences from what changes and what remains constant as one progressively shifts from the former to the latter type of analysis. We also kept under control three types of economic outcome (poverty, equivalent income, and assets), which do not always change consistently among the various subgroups.
In Italy, having had children in one's adult years does not yield very significant economic benefits: in the short run costs are probably high (a topic not discussed here); in the long run (that is, in one's old age), benefits do not accrue in any significant way. Income may not be particularly low, but assets surely are. Our study, in this respect, seems to confirm the
results that have emerged in other developed countries: a childless old age is not a deprived condition, or at least not in economic terms (Rempel 1985).
If parenthood in itself is scarcely beneficial, even when one's children become of age, coresiding with one's (grown up) children is very frequently observed in relatively bad economic situations, where equivalent income is lower, poverty higher, accumulated capital scarcer, and the subjective appreciation about the adequacy of one's economic resources is negative. We would argue that this situation emerges mainly when the young adults fail to find their own way (a job, a house, etc): in these cases, it is their aged parents who support them economically - a case that is observed much more frequently than its opposite, when a relatively rich young adult hosts his/her parents in his home, and transfers resources "upwards".
Our data do not permit us to tell whether the situation that emerges from our analyses depends on a sort of cultural norm regulating the private economic exchange between generations or, as several economists would argue (ISAE 1999), on a system that gives too much to the elders (through a generous pension and social security system) and too little to the young generations, whose space, for instance in the labour market is, in several respects, severely limited.
What we can tell for sure is that, in these conditions, children appear basically as a liability throughout one's life, up into old age. Inferences on the connections between the children's economic status that emerges from our research and the Italian extremely and persistent low fertility may not be totally misplaced.

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Figure 1: Sample frequencies and average personal income (Italy, 2000-2)


Figure 2: Per capita household assets by age (Italy, 2000-2)


Source: own elaborations on SHIW data, 2000 and 2002. Monetary values in 2002 prices (Thousand Euros).
Figure 3: Proportion poor by age (Italy, 2000-2)


Source: own elaborations on SHIW data, 2000 and 2002.

Table 1: Basic characteristics of the elders (65+) by gender and position in the household (Italy, 2000-2)

| Code | Position <br> in the hhld | Number |  | Age |  | Hhld size |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male | Female | Male | Female | Male | Female |
| 1 | Head | 2858 | 2258 | 73.0 | 75.2 | 2.2 | 1.4 |
| 2 | Husband/wife | 422 | 1594 | 72.4 | 71.3 | 2.6 | 2.3 |
| 3 | Child | 0 | 1 |  | 70.0 |  | 2.0 |
| 4 | Parent | 178 | 471 | 77.6 | 79.1 | 3.7 | 3.3 |
| 5 | Other relative | 76 | 277 | 77.1 | 79.0 | 3.9 | 3.6 |
| 6 | Other non rel. | 7 | 28 | 79.1 | 80.4 | 3.9 | 4.3 |
|  | Total | 3541 | 4629 | 73.3 | 74.5 | 2.4 | 2.1 |
|  | Position | Personal | income | Equiv. i | ncome | Per-head | wealth |
| Code | in the hhld | Male | Female | Male | Female | Male | Female |
| 1 | Head | 19324 | 13107 | 16425 | 13838 | 99656 | 90578 |
| 2 | Husband/wife | 12382 | 4449 | 15875 | 15677 | 79488 | 88507 |
| 3 | Child |  | 9544 |  | 14027 |  | 63900 |
| 4 | Parent | 9402 | 7142 | 15769 | 16130 | 76395 | 69215 |
| 5 | Other relative | 9034 | 7481 | 15265 | 16847 | 59019 | 71917 |
| 6 | Other non rel. | 9653 | 9148 | 16451 | 16822 | 41979 | 80652 |
|  | Total | 17758 | 9158 | 16301 | 14903 | 95097 | 86509 |

Source: own elaborations on SHIW data, 2000 and 2002. Monetary values in 2002 prices (Euro)

Table 2: How the elders (65+) manage to make ends meet (Italy, 2002)

|  |  |  |  | Only heads or <br> spouses |  |
| :--- | ---: | ---: | ---: | ---: | :---: |
|  | All elderly |  | N | $\%$ |  |
|  | N | $\%$ | N | $\%$ |  |
| Very hardly | 577 | $13 \%$ | 356 | $13 \%$ |  |
| Hardly | 643 | $15 \%$ | 362 | $14 \%$ |  |
| With some difficulty | 1.349 | $31 \%$ | 825 | $31 \%$ |  |
| With relative ease | 1.272 | $30 \%$ | 812 | $30 \%$ |  |
| Easily or very easily | 458 | $11 \%$ | 309 | $12 \%$ |  |
| Total | 4.299 | $100 \%$ | 2.664 | $100 \%$ |  |

Source: own elaborations on SHIW data, 2002.

Figure 4: Path analysis: theoretical framework


Table 3.1: Modelling the social background of aged heads or spouses, who answered the question on family background ( $\mathrm{n}=5177$ ) (Italy, 2000-2)

| A) Education \| | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Edu_ancestors\| | . 7563179 | . 0138604 | 54.57 | 0.000 | . 6014422 |
| Siblings \| | -. 1668836 | . 0224345 | -7.44 | 0.000 | -. 0819903 |
| _cons \| | 4.17983 | . 0815461 | 51.26 | 0.000 |  |

R2 $=0.3799 \operatorname{sqrt}(1-R 2)=0.7875$

| B) Children | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Education \| | -. 024535 | . 0060272 | -4.07 | 0.000 | -. 0706838 |
| Edu_ancestors\| | -. 017373 | . 0075138 | -2.31 | 0.021 | -. 0398015 |
| Siblings | . 114768 | . 0100504 | 11.42 | 0.000 | . 1624439 |
| Age | -. 0032526 | . 0033645 | -0.97 | 0.334 | -. 0136852 |
| _cons | 2.108355 | . 2584363 | 8.16 | 0.000 | . |

$R 2=0.0423$ sqrt (1 - R2) $=0.9786$


R2 $=0.7923 \operatorname{sqrt}(1-R 2)=0.4557$

Table 3.2: Modelling the economic conditions (poverty, income, assets) of aged heads or spouses, who answered the question on family background ( $\mathrm{n}=5177$ ) (Italy, 2000-2)

| A) Poverty \| | Coef. | Std. Err. | t | P>\|t| | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Children \| | . 0095181 | . 0035055 | 2.72 | 0.007 | . 0384287 |
| a) married \| | -. 1128495 | . 025763 | -4.38 | 0.000 | -. 1512518 |
| a) sepdiv \| | -. 023686 | . 0456262 | -0.52 | 0.604 | -. 007452 |
| a) widowed \| | -. 1239752 | . 0228252 | -5.43 | 0.000 | -. 1568011 |
| b) Onlyspouse \| | -. 0212683 | . 0182917 | -1.16 | 0.245 | -. 0297694 |
| b) Otheradlts \| | -. 0767648 | . 026898 | -2.85 | 0.004 | -. 0398572 |
| Child_in \| | . 0386186 | . 0177302 | 2.18 | 0.029 | . 0415053 |
| percmale20 \| | -. 0841566 | . 0191926 | -4.38 | 0.000 | -. 0648098 |
| Edu_hhld \| | -. 0152919 | . 0015783 | -9.69 | 0.000 | -. 1674689 |
| Edu_ancestors\| | -. 0033293 | . 0018097 | -1.84 | 0.066 | -. 0307947 |
| Siblings \| | -. 0013641 | . 0023289 | -0.59 | 0.558 | -. 0077955 |
| c) Center \| | . 0034669 | . 0117906 | 0.29 | 0.769 | . 0040918 |
| c) South I | . 2151741 | . 0112224 | 19.17 | 0.000 | . 2770751 |
| _cons \| | . 3279567 | . 0239214 | 13.71 | 0.000 | . |

R2 $=0.1440 \operatorname{sqrt}(1-R 2)=0.9252$; Reference poverty $=.1495$

| B) Eq_Income | Coef. | Std. Err. | t | P>\|t| | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Children | -61.02745 | 122.2228 | -0.50 | 0.618 | -. 00664 |
| a) married | 1610.168 | 898.2539 | 1.79 | 0.073 | . 0581581 |
| a) sepdiv | -267.7571 | 1590.807 | -0.17 | 0.866 | -. 0022702 |
| a) widowed | 3672.094 | 795.8247 | 4.61 | 0.000 | . 1251602 |
| b) Onlyspouse | 619.7026 | 637.7593 | 0.97 | 0.331 | . 0233755 |
| b) Otheradlts | 2740.392 | 937.8271 | 2.92 | 0.003 | . 0383439 |
| Child_in | -2253.484 | 618.1838 | -3.65 | 0.000 | -. 0652678 |
| percmale20 | 4032.198 | 669.1698 | 6.03 | 0.000 | . 0836821 |
| Edu_hhld | 1271.617 | 55.02951 | 23.11 | 0.000 | . 3752908 |
| Edu_ancestors\| | 466.354 | 63.09736 | 7.39 | 0.000 | . 1162475 |
| Siblings \| | -9.0114 | 81.20066 | -0.11 | 0.912 | -. 0013878 |
| c) Center \| | -857.0807 | 411.0909 | -2.08 | 0.037 | -. 0272609 |
| c) South | -3864.205 | 391.2802 | -9.88 | 0.000 | -. 134093 |
| _cons | 4072.325 | 834.045 | 4.88 | 0.000 |  |
| $\mathrm{R} 2=0.2443$ | sqrt(1 - R2) $=0.8693$; Reference eq. income $=16062$ |  |  |  |  |
| C) Assets | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| Children | -2929.323 | 2074.429 | -1.41 | 0.158 | -. 0202703 |
| a) married | -14580.31 | 15245.63 | -0.96 | 0.339 | -. 033493 |
| a) sepdiv | -33727.34 | 27000 | -1.25 | 0.212 | -. 0181865 |
| a) widowed \| | 26503.34 | 13507.15 | 1.96 | 0.050 | . 0574514 |
| b) Onlyspouse \| | -2819.618 | 10824.38 | -0.26 | 0.794 | -. 0067642 |
| b) Otheradlts \| | -16304.41 | 15917.29 | -1.02 | 0.306 | -. 014509 |


| Child in \| | -73633.64 | 10492.14 | -7.02 | 0.000 | -. 135634 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| percmale20 | 48838.05 | 11357.5 | 4.30 | 0.000 | . 0644609 |
| Edu_hhld \| | 12315.7 | 933.9894 | 13.19 | 0.000 | . 231163 |
| Edu_ancestors\| | 7554.935 | 1070.921 | 7.05 | 0.000 | . 1197695 |
| Siblings \| | -343.1453 | 1378.18 | -0.25 | 0.803 | -. 0033609 |
| c) Center \| | -1874.366 | 6977.249 | -0.27 | 0.788 | -. 0037916 |
| c) South \| | -24373.13 | 6641.011 | -3.67 | 0.000 | -. 0537904 |
| _cons \| | 7969.692 | 14155.84 | 0.56 | 0.573 |  |

Note: Letters (a) to (c) denote different modalities of the same variables, i.e. a) Marital status (ref.=Never married); b) Presence of other adults in the hhld (Ref.=None); c) Region of residence (Ref.=North).

Table 4.1: Modelling the social background of all the elders ( $\mathrm{n}=8129$ ) (Italy, 2000-2)


Table 4.2: Modelling the economic conditions (poverty, income, assets) of all the elders (n=8129) (Italy, 2000-2)

| A) Poverty | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Parent | -. 0200475 | . 0116637 | -1.72 | 0.086 | -. 0208698 |
| a) married | -. 0149187 | . 0251442 | -0.59 | 0.553 | -. 0196883 |
| a) sepdiv | . 0367783 | . 0382907 | 0.96 | 0.337 | . 0110007 |
| a) widowed | -. 0547436 | . 0191978 | -2.85 | 0.004 | -. 0693789 |
| b) Onlyspouse | -. 0582292 | . 0215192 | -2.71 | 0.007 | -. 0778518 |
| b) Otheradlts | -. 0615202 | . 0147601 | -4.17 | 0.000 | -. 0572754 |
| Child_in | . 0512194 | . 0101537 | 5.04 | 0.000 | . 0599039 |
| percmale20 | -. 0749777 | . 0158144 | -4.74 | 0.000 | -. 0545658 |
| Edu_hhld | -. 0190545 | . 0010429 | -18.27 | 0.000 | -. 1983673 |
| c) Center | . 003739 | . 0100434 | 0.37 | 0.710 | . 0041939 |
| c) South | . 2302094 | . 0088694 | 25.96 | 0.000 | . 2935751 |
| _cons | . 3106287 | . 0190658 | 16.29 | 0.000 | . |


| B) Eq_Income | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Parent | 189.1652 | 359.0687 | 0.53 | 0.598 | . 006071 |
| a) married | 789.5419 | 774.0687 | 1.02 | 0.308 | . 0321229 |
| a) sepdiv | -1033.538 | 1178.787 | -0.88 | 0.381 | -. 0095305 |
| a) widowed | 1007.94 | 591.009 | 1.71 | 0.088 | . 0393814 |
| b) Onlyspouse | -1201.002 | 662.4728 | -1.81 | 0.070 | -. 0495033 |
| b) Otheradlts | -1074.186 | 454.3926 | -2.36 | 0.018 | -. 0308313 |
| Child_in | -2152.661 | 312.585 | -6.89 | 0.000 | -. 0776173 |
| percmale20 | 3519.84 | 486.8485 | 7.23 | 0.000 | . 0789721 |
| Edu_hhld | 1350.172 | 32.10472 | 42.06 | 0.000 | . 4333351 |
| c) Center | -1270.358 | 309.1886 | -4.11 | 0.000 | -. 0439286 |
| a) South | -4597.088 | 273.0469 | -16.84 | 0.000 | -. 1807346 |
| _cons | 7625.216 | 586.9456 | 12.99 | 0.000 |  |
| R2 = 0.2339 sqrt (1-R2) $=0.8753$; Reference eq. income $=15509$ | sqrt(1 - R2) $=0.8753$; Reference eq. income $=15509$ |  |  |  |  |
| C) Assets | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| Parent | -12843.7 | 5796.441 | -2.22 | 0.027 | -. 0275102 |
| a) married | 30375.42 | 12495.78 | 2.43 | 0.015 | . 0824792 |
| a) sepdiv | -31662.52 | 19029.14 | -1.66 | 0.096 | -. 0194858 |
| a) widowed | 6451.001 | 9540.65 | 0.68 | 0.499 | . 0168216 |
| b) Onlyspouse | -63243.83 | 10694.29 | -5.91 | 0.000 | -. 1739767 |
| b) Otheradlts | -52712.83 | 7335.253 | -7.19 | 0.000 | -. 1009745 |
| Child_in | -57911.37 | 5046.055 | -11.48 | 0.000 | -. 1393571 |
| percmale20 | 36299.07 | 7859.188 | 4.62 | 0.000 | . 0543536 |
| Edu_hhld | 13946.3 | 518.266 | 26.91 | 0.000 | . 2987282 |
| c) Center | -4299.743 | 4991.227 | -0.86 | 0.389 | -. 0099231 |
| c) South | -31697.24 | 4407.792 | -7.19 | 0.000 | -. 0831691 |
| _cons | 44824.36 | 9475.054 | 4.73 | 0.000 | . |

$\mathrm{R} 2=0.1107 \operatorname{sqrt}(1-\mathrm{R} 2)=0.9430$; Reference assets per head $=90364$
Note: Letters (a) to (c) denote different modalities of the same variables, i.e. a) Marital status (ref.=Never married); b) Presence of other adults in the hhld (Ref.=None); c) Region of residence (Ref. North)

Table 5.1: Modelling the social background of all the elders ( $\mathrm{n}=4299$ ) (Italy, 2000-2)

| A) | Parent | Coef. | Std. Err. | t | P>\|t| | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Education | -. 0048469 | . 0014564 | -3.33 | 0.001 | -. 0513125 |
|  | Age | -. 0045267 | . 0008555 | -5.29 | 0.000 | -. 0815858 |
|  | cons | 1.190599 | . 0654557 | 18.19 | 0.000 |  |

```
R2 = 0.0079 sqrt(1 - R2) = 0.9961
```

| B) | Edu_hhld | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Education _cons |  | . 8102961 | . 0078848 | 102.77 | 0.000 | . 8430883 |
|  |  | 1.855435 | . 0548579 | 33.82 | 0.000 |  |

Table 5.2: Modelling the subjective economic background of all the elders (n=4299)
(Italy, 2000-2)

| SUBJ_ECON | Coef. | Std. Err. | t | $P>\|t\|$ | Beta |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Parent | . 0839027 | . 0516654 | 1.62 | 0.104 | . 0258321 |
| a) married | . 0542099 | . 1120616 | 0.48 | 0.629 | . 0217855 |
| a) sepdiv | -. 491371 | . 166358 | -2.95 | 0.003 | -. 0442459 |
| a) widowed | -. 055536 | . 0837711 | -0.66 | 0.507 | -. 0215149 |
| b) Onlyspouse | . 0004156 | . 09551 | 0.00 | 0.997 | . 0001688 |
| b) Otheradlts | . 2112788 | . 0647111 | 3.26 | 0.001 | . 0581195 |
| Child_in | -. 2095652 | . 0434331 | -4.83 | 0.000 | -. 0738476 |
| percmalè20 | . 3506123 | . 0677263 | 5.18 | 0.000 | . 0785736 |
| Edu_hhld | . 121755 | . 0045309 | 26.87 | 0.000 | . 3814136 |
| c) Center | -. 0887437 | . 0423552 | -2.10 | 0.036 | -. 0306067 |
| c) South | -. 6290257 | . 0382638 | -16.44 | 0.000 | -. 2402302 |
| _cons | 2.355637 | . 0821779 | 28.67 | 0.000 |  |

$\mathrm{R} 2=0.2413 \operatorname{sqrt}(1-\mathrm{R} 2)=0.8710:$ Reference value $=3.1$
Note: Letters (a) to (c) denote different modalities of the same variables, i.e. a) Marital status (ref.=Never married); b) Presence of other adults in the household (Ref. $=$ None); c) Region of residence (Ref. $=$ North)


[^0]:    ${ }^{1}$ Actually, there is also a panel part in it, which is however too short, and concerns too few individuals, to help us address the topics that we want to investigate here. For more details, see http://www.bancaditalia.it/statistiche;internal\&action=_setlanguage.action?LANGUAGE=en.

[^1]:    ${ }^{2}$ This variable depends basically on two different causes: how many siblings there were at the time of the elderly's youth (which is what interests us here), and how many of them have died since, which, in turn, depends on how old our subject is. This is a disturbing factor for us, which we keep (in part) under control by introducing the age of the elderly in our model.

[^2]:    ${ }^{3}$ These are the parents of the elderly that we are studying. The great majority of them have died at the time of the survey, or do not live with their children: in both cases, they are not sampled in the SHIW. We consider them because they form the family background, but they should not be confounded with those who are parents in the SHIW. Note, incidentally, that "parents" in the SHIW can be identified in two ways: either by studying the household roster (in case of co-residence) or through the question on the number of children living elsewhere. The latter option, however, holds only for the household head and his/her spouse.

[^3]:    ${ }^{4}$ And work, obviously. However, since labour market participation interacts with fertility in a complex and bidirectional way, we decided not to include this sphere into our analysis. Besides, we have very few pieces of information on the working history of our focus group (only detailed information on their current activity, if any).

[^4]:    ${ }^{5}$ The last two coefficients are not statistically meaningful, but their sign is as indicated in the text.
    ${ }^{6}$ Obviously the fact of having at least a child available and co-residing are correlated. It has been observed that the greater the number of children an individual has had in their life, the greater his/her chance of living with one of them in old age (Légaré and Martel 2003).
    ${ }^{7}$ This could be interpreted as follows: it is costly to separate, and only those who are relatively well off could afford it in the past (remember that we are talking about elderly who, for the vast majority, separated or divorced when they were younger, some time before the survey). As a result, they are relatively worse off than the married, but not so much as to disproportionately fall in poverty.

[^5]:    ${ }^{8}$ Notice, however, that the (economically) negative "effect" of being unmarried is partly balanced by the fact that, in most cases, the unmarried are childless.
    ${ }^{9}$ Notice that we distinguish between the spouse and other adult members. The impact of the spouse is generally minor, because this effect is already captured, in large part, by the fact of being married. It is true that one thing is to be married, and another thing is to live with one's spouse, but, not surprisingly, the two variables are interconnected because the vast majority of married persons share the same dwelling.

[^6]:    ${ }^{10}$ Remember that the answers range from 1 ("can make ends meet only very hardly") to 6 ("can make ends meet easily or very easily"). We tried alternative specification of the dependent variable, to account for possible non linearities, but results (not shown here) did not change much.

