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EXPLICANDO LA AVERSIÓN SOCIAL A LAS DESIGUALDADES EN SALUD

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TRABAJO EN CURSO
(POR FAVOR, NO CITAR SIN EL PERMISO DE LOS AUTORES)

Resumen

El principal objetivo de este trabajo consiste en explorar los factores que explican la aversión de los ciudadanos a las desigualdades socioeconómicas en salud. Se llevó a cabo una encuesta sobre una muestra representativa de la población española (n=1209). Después de informar que los individuos de las clases sociales altas tienen una esperanza de vida al nacer mayor que los individuos de clases sociales bajas, se pide a los entrevistados que elijan entre dos políticas de salud: una política que aumentaría en la misma cantidad la esperanza de vida de la clase alta y de la clase baja (política neutral), y otra política que tendría como objetivo únicamente aumentar la esperanza de vida de la clase social baja, reduciéndose así las desigualdades en salud (política igualitaria). Además, se administraron dos variantes de la pregunta, siendo la principal diferencia que una variante tenía un apoyo visual mientras que la otra no lo tenía. Se diseña un modelo que explica la preferencia por la política igualitaria, de acuerdo con diferentes variables demográficas, socioeconómicas e ideológicas. Las estimaciones probit muestran que el 70% de los entrevistados manifestaron una preferencia por la política igualitaria. Individuos de derechas o aquellos viviendo en regiones con mayor renta per capita tienen una menor probabilidad de preferir la política igualitaria. Sin embargo, sorprendentemente, ni la educación ni la renta de la familia está asociada con una mayor propensión individual a elegir la política igualitaria. Además, los jóvenes y los más viejos tienen una menor probabilidad de elegir la política igualitaria que aquellos otros de edad mediana. Finalmente, la forma en que se administra la pregunta también importa: los entrevistados que tienen un apoyo visual tienen un 20% menor de probabilidad de preferir la política igualitaria.

(287 palabras)

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EXPLAINING SOCIAL AVERSION TO INEQUALITIES IN HEALTH

Abstract

The main objective of this paper is to explore the factors that can explain peoples' aversion to inequality in health across socioeconomic groups. A representative sample of the Spanish population was surveyed (n=1,209). After being informed that those from the higher social class have longer life expectancy at birth than those from the lower social class, respondents were required to choose between two health policies: one would increase life expectancy of the high and low social groups by the same amount (the "distribution neutral" policy), and the other option would target the lowest social class group, thereby reducing current health inequalities (the "targeting" or "egalitarian" policy). Two variants of the question were administered, the main difference being that one had a visual aid whilst the other did not. A model is developed that explains the preference for targeting according to different demographic, socioeconomic and ideological variables. Probit estimations show that 70% of respondents report a preference for the egalitarian policy. As expected, right wingers or/and individuals living in a high per capita income region are less likely to choose the egalitarian policy. However, surprisingly, neither individual's education nor household income is associated with individual's preference to target. Age is also a determinant of individual choice: younger and older individuals are less likely to target the egalitarian policy than those in the middle age. Finally, results also suggest that the way in which the question is asked matters: respondents that have a visual aid are less likely to target by 20%.

Key words: inequality aversion, background characteristics, mode of presentation.

I. INTRODUCTION

Maximising average population health is a major objective of public health care systems. However, modern health care systems have another objective: equality in the distribution of health. Various studies have explored how members of the public see the balance between these two objectives and found that neither health maximisation or health equalisation alone is supported, and that these two objectives are traded off against each other (see for example Johannesson & Gerdtham, 1996; Cuadras-Morato et al, 2001; Anderson & Lyttkens, 1998; Dolan & Robinson, 2001; Dolan et al, 2002).

The motivation of this paper is to explore what factors can *explain* inequality aversion in health. Based on a survey data from Spain, the relationship between the respondents' backgrounds characteristics and their preferences to reduce inequalities in health is analysed. In addition, whether different modes of asking people about this issue lead to different answers is investigated.

This is done by analysing interview data obtained in Spain (see Abasolo et al. 2001). First, respondents were informed of a current socioeconomic health inequality, namely, that men from the highest social class have a longer life expectancy at birth (75 years) than men from the lowest social class (70 years)¹. Then, respondents were asked to choose between two health programmes with the same cost: programme A, that extends the life expectancy of both these population groups by two years each, and programme B, that targets the disadvantaged group and increases their life expectancy by four years. Since, by targeting all the benefits to the disadvantaged group, programme B will reduce the inequality by the same amount, we will refer to this as the “targeting policy” or the “egalitarian policy”. The aim of the questionnaire was to tap into the preferences of the respondent as a citizen, comparing public policies addressing issues of inequality and distribution, as opposed to a consumer, purchasing insurance policies for their own benefit. The survey question continued to identify the strength of inequality aversion by subjecting those respondents who choose the egalitarian policy to explicit trade offs between efficiency and equality (for details of the questionnaire, see Shaw et al); however, the present paper concentrates on the first exercise alone, so choices are not conditioned by efficiency considerations as both programmes have the same total health gain. At the end of the survey, socioeconomic, demographic and ideological information were gathered to serve as the explanatory variables. Two different ways of presenting the options were used (a Pictorial variant and a Verbal variant), with the aim of testing whether or not these two different devices to present the same information lead to the same results.

II. THE MODEL AND ESTIMATION METHODS

We specify a model that explains the probability of a given respondent to target the disadvantaged group, as defined above. An underlying (or latent) variable (T^*) represents an individual's propensity to chose this policy. We anticipate that demographic, socioeconomic and ideological characteristics are associated with people's attitudes towards egalitarianism. With respect to the first, age (A) and gender (G) are considered. Secondly, since we are dealing with attitudes regarding socioeconomic inequalities, we may expect there to be some pattern in the responses by respondents' socioeconomic status; proxies used to explore this possibility are household income

¹ The data are based on those for England (Acheson, 1998). Available data on life expectancy at age 25 by education groups in Madrid and Barcelona show similar patterns (Borrel et al. 1999).

(Y), education (E), per capita income of the region of residence (R), and being in the labour market (L). In general, it is expected that all these variables are negatively related with the propensity to support the egalitarian health policy. Thirdly, political affiliation, or ideology (I), is also assumed to have a role in the model. After all, people's attitude towards egalitarianism is an ideological issue, which might be favoured more by a left wing person. Lastly, we include in the model another variable (Q) representing the questionnaire variant. The question could be presented to the respondents with the aid of pictures (P) or verbally with no visual aids (V). The aim of this regressor in the model is to determine whether there are significant differences in the estimated probabilities depending on the way the question is asked.

Thus, the model can be written as:

$$T_i^* = T(G_i, A_i, E_i, Y_i, L_i, I_i, R_i, Q_i) + \varepsilon_i \quad [\text{eq. 1}]$$

In model [eq.1], the i subscripts represent individual respondents, and ε_i captures influences unobserved by the analyst, which we assume to have a standard normal distribution with zero mean and constant variance. In practice, T_i^* is unobserved. Rather, we observe T_i , which is a dummy variable representing whether or not the individual actually chooses the targeting policy; therefore it is the realization of a binomial process defined by:

$$T_i = 1 \text{ if } [T_i^* > 0]$$

So, if the individual's propensity to target is positive ($T_i^* > 0$) s/he will choose the egalitarian policy ($T_i = 1$), and if otherwise ($T_i^* \leq 0$) s/he will not ($T_i = 0$).

In order to select the functional form of the empirical model, socioeconomic and statistical criteria are used. This has allowed us to consider the definitions of the set of dummy variables and whether the only continuous variable (age) enters the model in natural units, as logarithms or as higher-order powers. Interactions between regressors are also included and tested in the model. In particular, in order to test whether the mode of presenting the question (P or V) has a different effect on the propensity to target across the different background characteristics specified in the model, we will test the joint hypothesis that the interactions of Q with the rest of regressors are not significantly different from zero.

The estimation process will be undertaken through non-linear probit regressions. Likelihood ratio (LR) tests and Reset specification tests will be carried out to appraise the appropriateness of the different functional forms. Throughout, a 5% significance level is used.

Estimations of model [eq.1] will allow us to empirically assess the relevance of the different hypothesised explanatory variables and appraise whether the way in which the question is formulated does not account or it does, and if it does in which way.

Model [eq.1] may be subject to selection bias due to incomplete survey data. In surveys of this sort respondents do not always provide answers to *all* the questions of the survey. It is the so-called "item non-response". If the pattern of non-response is not at random, conventional estimators may be biased and inconsistent. Tests for selection bias and correction, if necessary, are undertaken estimating a probit with sample selection (Greene 1997). The probit with sample selection works in

a manner very similar to the Heckman model except that the response variable is binary. This method requires additional exogenous variables (or identifying variables), which should explain the probability of participating but have no direct impact on the probability to target.

So, let us assume an underlying (unobserved) variable Y_i^* that determines selection into participating groups, i.e. $Y_i = 1$ when $Y_i^* > \text{threshold}$, and $Y_i = 0$ when $Y_i^* \leq \text{threshold}$. Y_i^* would represent the inclination for the individual to participate answering all the relevant questions being Y_i^* a linear function of some of the exogenous variables in model [eq.1] as well as some identifying variables as follows:

$$Y_i^* = Y(G_i, A_i, L_i, R_i, Q_i, M_i, H_i) + u_i \quad [\text{eq. 2}]$$

The identifying variables include M_i , which represents the marital status of the individual (married, single, divorced or widow), and H_i , which represents whether the individual lives in a rural area. The main criteria used here for proposing both set of identifying variables are that the variables have an impact on the probability to participate but are unrelated to the individual's preference for egalitarian policies. u_i is a random error term normally distributed with zero mean and constant variance.

Selection bias occurs when there is correlation between Y and ε (and therefore between ε and \mathbf{u}); that is, when unobservable factors that influence the potentially selection are also influencing the probability to target. If so, selection bias will be corrected. To check whether selection bias is absent we will test, firstly, whether ρ (the correlation of residuals) is significantly different from zero: if the covariance between ε and \mathbf{u} is significantly different from zero, then we cannot reject that there is no selection bias. In addition, a comparison of the estimates of both the initial probit and the probit with selection is undertaken: a large change in the coefficients, a change of the sign of the coefficients or a change in the statistical significance of the coefficients between the initial probit and the probit with selection indicate the existence of selection bias.

III. DATA AND VARIABLES DEFINITION

The data were collected during 1999 in Spain. A survey of 1,209 individuals over 18 years of age was undertaken. Face to face interviews were assigned across the 17 "Comunidades Autónomas" (Regions for short), reflecting the local resident population proportionally. Within each of the Regions, interviews were randomly allocated so that the achieved sample will be representative of the general Spanish population in terms of socio-demographic characteristics. Each of the two variants of the questionnaire was administered to approximately the same number of respondents: 602 for the P-variant and 607 for the V-variant. In terms of background characteristics, the distribution of these variables across the two variants is not statistically significantly different from each other. For descriptive statistics, see Table 1 of the Appendix.

The binary dependent variable, *target*, takes the value 1 if individual i targets the worse off group, 0 if otherwise. *Age* is a continuous variable, which takes values between 18 and 94, and also enters the equation in quadratics. The binary variable *female* indicates whether the individual is female or male. Education is recorded by level of schooling and has been categorised in three dummy variables representing low education *lowedu* (those with primary school education or less), middle education *midedu* (those with secondary school education, the baseline category), and high

education *highedu* (those with higher and university education). Household income is also categorised in three dummies *high income* (more than 1,653 euros per month), *middle income* (between 600 and 1,653 euros per month, the baseline category) and *low income* (less than 600 euros per month)². Per capita income in the region of residence is captured by three dummies: high income regions *highreg* (those resident in Madrid, Navarra or País Vasco), low income regions *lowreg* (those who live in Andalucía or Extremadura) and middle income regions *midreg* (residents in the rest of Spain, the omitted category). The binary variable non-labour market (*nonlabmkt*) indicates whether the individual is not currently in the labour market (i.e. is retired, unemployed, homemaker or student) or whether s/he is. Political affiliation is recorded by three categorical indicators, *right* (those who report as being centre-right, right or extreme right wing), *left* (those who report as being centre-left, left or extreme left wing), and *centre* (those who are in the political centre, the baseline category). *Type* is the dummy variable representing the type of question administered, taking value 1 if the V variant was provided, and 0 if the P variant was administered. Regarding the identifying variables, *single*, *divorced* and *widow* are three dummy variables representing whether the individual belongs to one of such marital status (as opposed to the omitted category *married*); and the binary variable *rural*, representing whether the individual is resident in a rural area (of less than 10,000 residents).

IV. RESULTS

Descriptive statistics and estimation results are reported in table 1. Overall, 70% of respondents chose to target the egalitarian policy. Model [eq.1] passes the RESET specification test, indicating that there is no evidence of functional form problems (table 2). In addition, when dealing with the issue of the relevance of the question variant in the model, likelihood ratio tests show that specification [eq.1] fits the data significantly better than other alternative specifications. The alternative equations considered include, on the one hand, a model that omits the *type* variable and, on the other hand, a model which includes the *type* variable together with interactions with the rest of independent variables. Therefore model [eq.1] shows that the way in which the question is presented counts, although there are no differential effects across the individual characteristics considered in the model.

Item non-response leads to 514 missing cases, which corresponds to 42.5% of the entire data, leaving 695 individuals as valid cases. Estimates for the probit with sample selection [eq.2] can be seen in table 4. The correlation coefficient (*rho*) is not statistically different from zero. It is also true that the confidence interval for the parameter estimate is wide. However, sign, magnitude and t-ratios of coefficients of the probit with selection are very similar to those of the initial probit estimation [eq.1]. Overall, the results suggest that we cannot reject the null hypothesis that there is no selection bias.

Probit average and marginal effects evaluated at sample means (table 3) show that: firstly, other things equal, age is a statistically significant explanatory variable of the probability to target the disadvantaged group. However, the marginal effect of age on targeting is not constant and changes with the age of the respondent. For young adults between 18 and 44 the probability of targeting increases with age at a diminishing rate. A maximum is reached, on average, at the age of 44, after which the probability of targeting starts to decrease with age at an increasing rate.

² Although it would have been desirable to derive equivalent income, this has not been possible given the available information in the survey and also given that the variable household income was not available as a continuous variable.

Secondly, those who are politically right wing have a significantly lower probability of targeting the egalitarian policy, as compared to those who are in the political centre (and consequently, as compared also to those who are left wing). In particular, the probability of a right wing individual targeting is on average 12% less than the reference individual, other things being equal. Finally, living in one of the richest regions such as Madrid, Navarra or País Vasco is associated with a lower probability of targeting the egalitarian policy, other things being equal, by 17.4%, compared to those living in average per capita income regions. There is no evidence that other demographic and socioeconomic factors included in the model have a significant influence in the attitudes towards health inequalities.

Regarding the effect of the question variants, our model suggests that mode of presentation makes a difference. When individuals are administered the V-variant (as opposed to the P-variant), there is a 7% higher probability of targeting the egalitarian policy (at sample means). A comparison of this average effect with those of other variables shows that, at sample means, the average effect of the question variants is higher than that the marginal effect of age but lower than the average effect of being right wing or resident in a rich region. However, there is no evidence that the question variant has differential effects on the probability of targeting across the different demographic, socioeconomic and ideological characteristics, when these are taken jointly.

V. CONCLUSION

A survey that elicited peoples' aversion to inequality in health was carried out in Spain. The current study explored the factors associated with the respondents' propensity to choose a policy that reduced the inequality, as opposed to a policy that did not. These included the respondents socioeconomic and demographic characteristics, their political affiliations, and the mode of presentation used in the questionnaire. The results suggest that age, ideology and the affluence of the region where they live explain people's aversion to inequality in health: older individuals, right wingers and/or those living in affluent regions are significantly less likely to support egalitarian policies. Unexpectedly, other socio-economic background characteristics like individual's education or household's income do not seem to have a significant impact. The evidence also shows that the way in which the question is administered also counts: the regression results indicate that on average, there is a significantly higher probability to target when people deal with numbers rather than with pictures.

VI. REFERENCES

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APPENDIX

TABLE 1. MEAN VALUES AND STANDARD DEVIATIONS OF VARIABLES

Variable	Obs	Weight	Mean	Std. Dev.	Min	Max
target	695	694.516207	.6904674	.4626339	0	1
female	695	694.516207	.485911	.5001614	0	1
age	695	694.516207	45.26725	17.5467	18	91
agesq	695	694.516207	2356.567	1709.339	324	8281
highedu	695	694.516207	.2362348	.425074	0	1
midedu	695	694.516207	.4139528	.492895	0	1
lowedu	695	694.516207	.3498124	.477254	0	1
highinc	695	694.516207	.2259842	.4185301	0	1
midinc	695	694.516207	.4759503	.499781	0	1
lowinc	695	694.516207	.2980655	.4577378	0	1
nonlabmkt	695	694.516207	.5352979	.4991117	0	1
left	695	694.516207	.4718532	.4995667	0	1
centre	695	694.516207	.3091312	.4624682	0	1
right	695	694.516207	.2190156	.4138771	0	1
reghigh	695	694.516207	.1453269	.352684	0	1
regmid	695	694.516207	.6314791	.482751	0	1
reglow	695	694.516207	.223194	.4166872	0	1
type	695	694.516207	.50066	.5003597	0	1

TABLE 2. RESULTS PROBIT ESTIMATION

Probit estimates
 Log likelihood = -410.96762
 Number of obs = 695
 LR chi2(13) = 38.09
 Prob > chi2 = 0.0003
 Pseudo R2 = 0.0443
 RESET test 0.04; sq(1)=3.84

target	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
female	.0356847	.1081395	0.33	0.741	-.1762649 .2476343
age	.0439998	.0173643	2.53	0.011	.0099663 .0780333
agesq	-.0005051	.0001825	-2.77	0.006	-.0008628 -.0001475
highedu	.2193948	.1342858	1.63	0.102	-.0438006 .4825902
lowedu	.2170204	.1467327	1.48	0.139	-.0705704 .5046111
highinc	-.1167251	.1338214	-0.87	0.383	-.3790103 .14556
lowinc	.0217484	.136658	0.16	0.874	-.2460964 .2895933
nonlabmkt	.1568169	.1272843	1.23	0.218	-.0926558 .4062896
left	-.0148879	.1222525	-0.12	0.903	-.2544983 .2247225
right	-.3359247	.1401156	-2.40	0.017	-.6105463 -.0613031
reglow	.1271331	.1309688	0.97	0.332	-.1295612 .3838273
reghigh	-.4672769	.1422487	-3.28	0.001	-.7460792 -.1884745
type	.2037721	.1021195	2.00	0.046	.0036215 .4039227
_cons	-.4742725	.4152314	-1.14	0.253	-1.288111 .3395662

TABLE 3. PROBIT MARGINAL AND AVERAGE EFFECTS

Probit estimates Number of obs = 695
LR chi2(13) = 38.09
Prob > chi2 = 0.0003
Log likelihood = -410.96762 Pseudo R2 = 0.0443

target	dF/dx	Std. Err.	z	P> z	x-bar	[95% C.I.]
female*	.0124443	.0376975	0.33	0.741	.485911	-.061442	.08633	
age	.0153486	.0060523	2.53	0.011	45.2672	.003486	.027211	
agesq	-.0001762	.0000636	-2.77	0.006	2356.57	-.000301	-.000052	
highedu*	.0740483	.0436885	1.63	0.102	.236235	-.01158	.159676	
lowedu*	.0742953	.049191	1.48	0.139	.349812	-.022117	.170708	
highinc*	-.041359	.0481081	-0.87	0.383	.225984	-.135649	.052931	
lowinc*	.0075692	.0474503	0.16	0.874	.298065	-.085432	.10057	
nonlab~t*	.054818	.0445468	1.23	0.218	.535298	-.032492	.142128	
left*	-.0051945	.0426634	-0.12	0.903	.471853	-.088813	.078424	
right*	-.1220372	.0524927	-2.40	0.017	.219016	-.224921	-.019153	
reglow*	.0434998	.0438869	0.97	0.332	.223194	-.042517	.129516	
reghigh*	-.1738084	.0550714	-3.28	0.001	.145327	-.281746	-.06587	
type*	.0709977	.0354917	2.00	0.046	.50066	.001435	.14056	
obs. P	.6904674							
pred. P	.6978101 (at x-bar)							

(*) dF/dx is for discrete change of dummy variable from 0 to 1
z and P>|z| are the test of the underlying coefficient being 0

TABLE 4. PROBIT WITH SAMPLE SELECTION

Number of obs = 1209
Censored obs = 514
Uncensored obs = 695

Log likelihood = -1205.962 Wald chi2(13) = 38.00
Prob > chi2 = 0.0003

target	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
female	.0057774	.1480517	0.04	0.969	-.2843985	.2959534
age	.0489134	.0217279	2.25	0.024	.0063275	.0914993
agesq	-.0005496	.000214	-2.57	0.010	-.0009691	-.0001302
highedu	.2097602	.1384156	1.52	0.130	-.0615294	.4810498
lowedu	.2111436	.1451737	1.45	0.146	-.0733917	.4956788
highinc	-.1141935	.1327207	-0.86	0.390	-.3743213	.1459343
lowinc	.0226788	.1338767	0.17	0.865	-.2397148	.2850724
nonlabmkt	.1352117	.1500073	0.90	0.367	-.1587972	.4292207
left	-.0149317	.1195964	-0.12	0.901	-.2493362	.2194729
right	-.3305266	.1424466	-2.32	0.020	-.6097169	-.0513364
reglow	.1492482	.1469055	1.02	0.310	-.1386813	.4371778
reghigh	-.534301	.2321363	-2.30	0.021	-.9892797	-.0793222
type	.2003553	.1029275	1.95	0.052	-.0013789	.4020894
_cons	-.7403945	.9407205	-0.79	0.431	-2.584173	1.103384

Y							
	female	-.2007844	.0792574	-2.53	0.011	-.356126	-.0454427
	age	.0364361	.0136711	2.67	0.008	.0096411	.063231
	agesq	-.0003817	.0001372	-2.78	0.005	-.0006505	-.0001129
	nonlabmkt	-.0980364	.088269	-1.11	0.267	-.2710405	.0749677
	reghigh	-.4232526	.0963924	-4.39	0.000	-.6121783	-.2343269
	reglow	.1806764	.0976276	1.85	0.064	-.0106701	.372023
	single	-.1022373	.1099509	-0.93	0.352	-.317737	.1132624
	divorced	-.1270649	.2394361	-0.53	0.596	-.596351	.3422211
	widow	.2583478	.152567	1.69	0.090	-.0406781	.5573737
	rural	.1091552	.0928946	1.18	0.240	-.0729148	.2912253
	_cons	-.3541731	.3366173	-1.05	0.293	-1.013931	.3055846

	/athrho	.2713856	.9422371	0.29	0.773	-1.575365	2.118136

	rho (ρ)	.2649136	.8761116			-.917875	.9714895

LR test of indep. eqns. (rho = 0):		chi2(1) =	0.08	Prob > chi2 =	0.7742		
