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<th>Social capital and self-rated health in the Republic of Ireland: evidence from the European Social Survey</th>
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<tr>
<td>Authors(s)</td>
<td>Delaney, Liam; Wall, Patrick G.; O'hAodha, Fearghal</td>
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<td>Publication date</td>
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</table>
Social Capital & Self-Rated Health in the Republic of Ireland: Evidence from the European Social Survey

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12 February 2007

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All errors and omissions remain those of the author.
Abstract

This paper analyses the determinants of self-reported health in Ireland, conditioning self-reported health on a set of socio-economic, labour market and social capital variables. Ireland has the highest self-reported health rate in Europe. The results demonstrate statistically significant effects of income on self-reported health that are robust to different statistical specifications and statistically significant though modest effects of social capital variables such as associational membership and frequency of social meeting.
Introduction
The extent to which health is distributed unequally across society and determined by social and labour market factors is an important question. Several studies have demonstrated that Ireland has very high self-rated health and well-being compared to other countries.\textsuperscript{1} However, there also exist considerable social disparities in terms of health outcomes.\textsuperscript{2,3} Several recent papers have examined socio-economic determinants of health.\textsuperscript{4,5} There has also been considerable international empirical evidence about associations between social capital and health\textsuperscript{6-8} and labour market variables and health\textsuperscript{9-11}. However the literature is still very much contested in terms of the nature and scope of these associations.\textsuperscript{12,13} A previous examination of self-rated health in Ireland revealed marked social gradients with health being related to age, marital status, tenure, educational status, social class, household size and eligibility for General Medical Services.\textsuperscript{3} The properties of such scales and their relation to morbidity are discussed in several papers and there is strong evidence that single-item self-report measures are adequate survey measures of health with strong correlations to morbidity.\textsuperscript{14-18} This paper further examines the relationship between self-reported health and a number of social capital and labour market variables, utilising data from the Irish round of the European Social Survey.

Data and Method
Data were derived from the 2002 and 2005 European Social Survey\textsuperscript{19} and analysed using STATA 9. The full 87,915 observations from both rounds were pooled and used to estimate the mean self-rated health across Europe. The Irish data were isolated, yielding a sample-size of 2,049 individuals for 2002 and 2,286 individuals for 2005. The 2002 Irish
data were utilised to estimate a detailed set of linear and non-linear multiple regression models to analyse the determinants of subjective health state, which itself was a five point scale: "very bad", "bad", "fair", "good", "very good". The 2002 data is used for this purpose as it contains a richer array of social capital variables. 3240 households were selected for interview, of which 2046 interviews were achieved, giving a response rate of 64.46 per cent. The nationally representative sample was drawn from the electoral register. We utilise a number of measures of social capital: number of associational memberships, frequency of socialising with friends, social trust (as measured by a 1-30 scale summing three separate trust items) and availability of someone to discuss problems with. Our measures of labour market factors are: number of hours worked, degree of control over working hours and the nature of the contract the person was working under (permanent versus limited).

Results
Table 1 displays the frequency distribution of self-reported health in 2002 and 2005. The majority of respondents describe their health as being fair, good or very good. There is no significant change in levels of self-rated health between the two rounds of the study. As can be seen in Table 2, the pooled data reveals that Ireland has the highest mean self-reported health of all the countries in the sample, thus replicating the other findings. Self-rated is highest in Ireland, Iceland, Denmark and Switzerland and lowest in Ukraine, Hungary, Estonia and Portugal.

We tested a number of specifications examining the link between self-reported health and social capital variables. The modelling strategy is similar to that pursued in a
previous paper on well-being in Ireland. Rather than omitting the 304 individuals that did not answer the income question, we impute their income as a linear function of their years of education. The results of the regression models are reported in Table 3. As can be seen, those who did not answer the income question do not differ in self-rated health in any of the five models. Model 1 examines the extent to which health is related to income and education without controlling for other factors and demonstrates a marked relationship between self-rated health and both measures. The stratification of health by income level is still very much apparent in the Irish context as it is by level of education. Model 2 adds to this model by including a range of demographic variables. Confirming the findings from SLAN, there are no gender differences in self-reported health levels. Self-rated health is significantly negatively related to age and being single as opposed to married.\footnote{We included region in some models. The only significant regional disparity is that self-reported health was statistically significantly higher in the South-West compared to any other region.}

The results of Model 3 show a statistically significant though modest effect of a range of social capital variables. Associational membership and meeting socially with friends are both significantly associated with better self-rated health. There is no association between hours spent watching television and self-rated health. Not having someone with whom to discuss intimate matters is associated with lower self-rated health though not significantly at the 10% level. Social trust is statistically significantly associated with higher self-rated health. Model 4 removes the social capital variables and includes measures of job quality and difficulty. It is thus restricted to the sample engaged in market employment. Those on limited contracts show significantly lower health than their peers, even controlling for several other demographic characteristics. There is
evidence that prioritising work has an effect on health, but in fact a positive effect. Interestingly, this effect is statistically the same as the effect of prioritising leisure. Thus, there is little evidence overall that positive attitudes to work or effort negatively impinge on health. Furthermore, there is little evidence that the number of hours contracted has a negative effect. Model 5 examines the full set of variables. As can be seen, income remains positively associated with self-rated health and age remains negatively associated. Social trust, being on a permanent contract and prioritising work and leisure are all associated with higher self-rated health.

Discussion

There are a number of key results from this paper. Firstly, the data confirm that Ireland has the highest level of self-rated health in Europe in both 2002 and 2005. Furthermore, there is a marked social gradient in self-rated health and statistically significant associations between self-reported health and social factors at the individual level. The effects of both income and age are robust to the inclusion of several different social and labour market variables. Thus the paper offers further confirmation of social gradients in Irish health. The paper finds statistically significant though modest effects of standard social capital measures, such as associational membership, on self-reported health. Social trust is the social capital variable that has the highest association with health and this should be explored further.

In summary, the evidence for social capital and labour market effects on health at the individual level as gleaned from this important data-source is consistent with the view that individual access to networks and other types of social capital are health-promoting.
though the magnitude of the coefficients is small. However, it would be unwise to make wide-ranging conclusions on the basis of a single analysis and a number of research strategies are available. The existing archived data should be utilised to a far greater degree. Other secondary sources of data such as the Eurobarometers, World Values Survey, World Health Survey, Living in Ireland, Quarterly National Household Survey, International Social Survey Programme and several other similar data could be utilised to build up a picture of the determinants of health in Ireland. Instrumental variable regression techniques offer one potentially powerful tool for disentangling cause and effect. The key to such methodologies is to find variables that are associated with the independent variables but not directly with the dependent variables thus allowing the construction of algorithms that yield figures with causal interpretations. Furthermore, there is growing interest in the extent to which self-reported health measures are prone to differential item functioning and the development of anchoring vignette methodologies is a promising development in this regard.\textsuperscript{14, 21-23}
### Table 1: Subjective Health in Ireland

<table>
<thead>
<tr>
<th>Subjective General Health</th>
<th>2002</th>
<th></th>
<th>2005</th>
<th></th>
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<tr>
<td>very good</td>
<td>842</td>
<td>41.17</td>
<td>41.17</td>
<td>960</td>
</tr>
<tr>
<td>good</td>
<td>868</td>
<td>42.44</td>
<td>83.62</td>
<td>951</td>
</tr>
<tr>
<td>fair</td>
<td>284</td>
<td>13.89</td>
<td>97.51</td>
<td>317</td>
</tr>
<tr>
<td>bad</td>
<td>40</td>
<td>1.96</td>
<td>99.46</td>
<td>48</td>
</tr>
<tr>
<td>very bad</td>
<td>11</td>
<td>0.54</td>
<td>100</td>
<td>8</td>
</tr>
<tr>
<td>Total</td>
<td>2,045</td>
<td>100</td>
<td></td>
<td>2,284</td>
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### Table 2: Self-Reported Health by Country (Pooled Data)

<table>
<thead>
<tr>
<th>Country</th>
<th>Mean</th>
<th>Std. Deviation</th>
<th>N</th>
</tr>
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<tbody>
<tr>
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<td>0.791</td>
<td>4329</td>
</tr>
<tr>
<td>Iceland</td>
<td>4.173</td>
<td>0.833</td>
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</tr>
<tr>
<td>Denmark</td>
<td>4.120</td>
<td>0.906</td>
<td>2982</td>
</tr>
<tr>
<td>Switzerland</td>
<td>4.093</td>
<td>0.751</td>
<td>4179</td>
</tr>
<tr>
<td>Greece</td>
<td>4.045</td>
<td>0.984</td>
<td>4972</td>
</tr>
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<td>Austria</td>
<td>4.041</td>
<td>0.863</td>
<td>4506</td>
</tr>
<tr>
<td>Norway</td>
<td>3.997</td>
<td>0.892</td>
<td>3795</td>
</tr>
<tr>
<td>Sweden</td>
<td>3.985</td>
<td>0.869</td>
<td>3945</td>
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<tr>
<td>Belgium</td>
<td>3.983</td>
<td>0.797</td>
<td>3675</td>
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<tr>
<td>Israel</td>
<td>3.957</td>
<td>1.006</td>
<td>2487</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>3.913</td>
<td>0.933</td>
<td>3942</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>3.836</td>
<td>0.934</td>
<td>3185</td>
</tr>
<tr>
<td>Netherlands</td>
<td>3.831</td>
<td>0.773</td>
<td>4244</td>
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<tr>
<td>Finland</td>
<td>3.813</td>
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<td>Italy</td>
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</tr>
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<td>France</td>
<td>3.704</td>
<td>0.886</td>
<td>3308</td>
</tr>
<tr>
<td>Spain</td>
<td>3.661</td>
<td>0.923</td>
<td>3389</td>
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<tr>
<td>Germany</td>
<td>3.636</td>
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<td>Slovakia</td>
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<td>1509</td>
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<td>Slovenia</td>
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<tr>
<td>Poland</td>
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<tr>
<td>Portugal</td>
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<tr>
<td>Estonia</td>
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<td>1986</td>
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<tr>
<td>Hungary</td>
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</tr>
<tr>
<td>Ukraine</td>
<td>2.963</td>
<td>0.853</td>
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</tr>
<tr>
<td>Total</td>
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Table 3: OLS Regression Estimates of Self-Reported Health (2002 Data)

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<td>0.040***</td>
<td>0.033***</td>
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<tr>
<td></td>
<td>0.008</td>
<td>0.008</td>
<td>0.009</td>
<td>0.011</td>
<td>0.011</td>
</tr>
<tr>
<td>Imputation Dummy</td>
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<td>0.001</td>
<td>0.012</td>
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<td>0.019</td>
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<tr>
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<td>0.048</td>
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<tr>
<td>Years of Education</td>
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<td>0.017***</td>
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<tr>
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<tr>
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<td>0.001</td>
<td>0.002</td>
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<tr>
<td>Female</td>
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<td>0.035</td>
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<td>Never Married</td>
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<tr>
<td></td>
<td>0.046</td>
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<td>Social Trust</td>
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<td>Television Hours</td>
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<tr>
<td>Social Meeting</td>
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<td>0.031*</td>
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<td></td>
<td>0.012</td>
<td>0.017</td>
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<td>No-one to discuss problems</td>
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<td>-0.093</td>
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<tr>
<td>Prioritization of Work</td>
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<td>0.028***</td>
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<td>Prioritization of Leisure</td>
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<td></td>
<td>0.012</td>
<td>0.012</td>
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<tr>
<td>Ability to Organise Work</td>
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<td></td>
<td>0.023</td>
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<td>Contract Working Hours</td>
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<td>Total Overtime</td>
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<tr>
<td>Limited Contract</td>
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<td></td>
<td>0.053</td>
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<tr>
<td>Constant</td>
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</tr>
<tr>
<td>Number of obs</td>
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<tr>
<td>F( 3, 1976)</td>
<td>60.58</td>
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<tr>
<td>Prob &gt; F</td>
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<td>0</td>
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<tr>
<td>Adj R-squared</td>
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<td>0.14</td>
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<td>Root MSE</td>
<td>0.76</td>
<td>0.74</td>
<td>0.72</td>
<td>0.71</td>
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Notes: OLS coefficients reported with standard errors in parenthesis. Significance levels: *** 1%, ** 5%, * 10%
Table 4: Ordered Probit Regression Estimates of Self-Reported Health (2002 Survey-Weighted Data)

<table>
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<tr>
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<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
<th>(4)</th>
<th>(5)</th>
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<tr>
<td>Income</td>
<td>0.105***</td>
<td>0.067***</td>
<td>0.055***</td>
<td>0.062***</td>
<td>0.055***</td>
</tr>
<tr>
<td></td>
<td>(0.012)</td>
<td>(0.013)</td>
<td>(0.014)</td>
<td>(0.018)</td>
<td>(0.019)</td>
</tr>
<tr>
<td>Imputation Dummy</td>
<td>0.069</td>
<td>0.018</td>
<td>0.032</td>
<td>0.062</td>
<td>0.046</td>
</tr>
<tr>
<td></td>
<td>(0.082)</td>
<td>(0.081)</td>
<td>(0.083)</td>
<td>(0.132)</td>
<td>(0.133)</td>
</tr>
<tr>
<td>Years of Education</td>
<td>0.029***</td>
<td>0.021**</td>
<td>0.008</td>
<td>0.008</td>
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<td></td>
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<td>(0.009)</td>
<td>(0.009)</td>
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<td>(0.013)</td>
</tr>
<tr>
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<td>Cut 1</td>
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<td>-2.556*** (0.371)</td>
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<td>Cut 2</td>
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<td>-1.953*** (0.368)</td>
<td>-0.838**</td>
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<td>Cut 3</td>
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<td>-1.459*** (0.190)</td>
<td>-1.123*** (0.248)</td>
<td>-0.937*** (0.360)</td>
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<td>Cut 4</td>
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<td>-0.131 (0.187)</td>
<td>0.231 (0.248)</td>
<td>0.413 (0.358)</td>
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<td>Observations</td>
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Standard errors in parentheses
*** p<0.01, ** p<0.05, * p<0.1
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<th>Covariate</th>
<th>Description</th>
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<tr>
<td><strong>Dependent Variable</strong></td>
<td><strong>Health</strong>                                                                 5-value categorical variable (&quot;very bad&quot; to &quot;very good&quot;) indicating the respondent's subjective general health.</td>
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<td><strong>Demographic Variables</strong></td>
<td><strong>Income</strong>                                                                 10-value categorical variable of households' total net income, from all sources. Includes 304 missing values which have been imputed from Years of Education</td>
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<td><strong>Imputation Dummy</strong></td>
<td>A binary variable that identifies those observations for which income values have been imputed.</td>
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<tr>
<td><strong>Years of Education</strong></td>
<td>Number of years of completed education.</td>
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<td><strong>Age</strong></td>
<td>Respondent's age in integers.</td>
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<tr>
<td><strong>Female</strong></td>
<td>Binary variable, 0 = Male, 1 = female</td>
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<tr>
<td><strong>Marital Status</strong></td>
<td>5-value categorical variable indicating marital status (&quot;married&quot;, &quot;separated&quot;, &quot;divorced&quot;, &quot;widowed&quot;, &quot;never married&quot;). Implemented using dummy variables, with &quot;married&quot; as the base class.</td>
</tr>
<tr>
<td><strong>Social Capital Variables</strong></td>
<td><strong>Social Trust</strong>                                                                 A measure of the general level of trust that the respondent has in society. It is generated by combining the scores given in answer to three questions: &quot;Are people mostly helpful or mostly look out for themselves?&quot;; &quot;Do people mostly try to take advantage or try to be fair?&quot;; and &quot;Can most people be trusted?&quot;. Each question has a zero to ten range, yielding a zero to thirty range for the aggregate measure. Lower values indicate lower levels of trust.</td>
</tr>
<tr>
<td><strong>Television Hours</strong></td>
<td>Zero to seven categorical variable (&quot;No time at all&quot; to &quot;More than 3 hours&quot;) indicating how many hours are spent watching TV on an average weekday.</td>
</tr>
<tr>
<td><strong>Associational Membership</strong></td>
<td>Total number of memberships held in the past year, calculated by adding up twelve binary variables, which indicate membership of the following types of clubs or associations: sports; humanitarian; cultural/hobby; trade union; business/professional/farming; consumer/automobile; environmental/peace/animal; religious; political party; science/education/teacher; social club; or other voluntary organisation.</td>
</tr>
<tr>
<td><strong>Social Meeting</strong></td>
<td>One to seven categorical variable (&quot;never&quot; to &quot;every day&quot;) indicating how often the respondent meets friends, colleagues or relatives socially.</td>
</tr>
<tr>
<td><strong>No-one to discuss problems</strong></td>
<td>Binary variable indicating whether the respondent has someone to discuss intimate or personal concerns with.</td>
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<tr>
<td><strong>Labour Market</strong></td>
<td><strong>Prioritization of Work</strong>                                                                 Zero to ten categorical variable (&quot;extremely unimportant&quot; to &quot;extremely important&quot;) indicating the importance of work to the respondent.</td>
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<tr>
<td><strong>Prioritization of Leisure</strong></td>
<td>Zero to ten categorical variable (&quot;extremely unimportant&quot; to &quot;extremely important&quot;) indicating the importance of leisure time to the respondent.</td>
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<tr>
<td><strong>Ability to Organise Work</strong></td>
<td>One to four categorical variable (&quot;to a large extent&quot; to &quot;not at all&quot;) indicating the extent to which the respondent can organise their own work.</td>
</tr>
<tr>
<td><strong>Contract Working Hours</strong></td>
<td>Total number of contracted hours, excluding overtime, per week in their main job.</td>
</tr>
<tr>
<td><strong>Total Overtime</strong></td>
<td>Total number of hours of overtime worked.</td>
</tr>
<tr>
<td><strong>Limited Contract</strong></td>
<td>Binary variable indicating the type of contract held by the respondent – &quot;limited&quot; or &quot;unlimited&quot;.</td>
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</tbody>
</table>
References


