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## Article (Accepted version) (Refereed)

#### Original citation:

Buddelmeyer, Hielke and Powdthavee, Nattavudh (2016) Can having internal locus of control insure against negative shocks? Psychological evidence from panel data. Journal of Economic Behavior and Organization, 122. pp. 88-109. ISSN 0167-2681

DOI: <u>10.1016/j.jebo.2015.11.014</u>

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#### Can Having Internal Locus of Control Insure Against Negative Shocks? Psychological Evidence from Panel Data

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2<sup>nd</sup> November 2015

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#### **Abstract**

We investigate whether the intensity of emotional pain following a negative shock is different across the distribution of a person's locus of control – the extent to which individuals believe that their actions can influence future outcomes. Using panel data from Australia, we show that individuals with strong internal locus of control are psychologically insured against own and others' serious illness or injury, close family member detained in jail, becoming a victim of property crime and death of a close friend, but not against the majority of other life events. The buffering effects vary across gender. Our findings thus add to the existing literature on the benefits of internal locus of control.

**JEL:** D03; I19

**Keywords:** locus of control; resilience; well-being; happiness; HILDA

#### 1. Introduction

A rapidly growing literature in economics is highlighting the importance of non-cognitive skills in determining economic choices and behaviors. The overall consensus among these studies is clear: Measures of non-cognitive skills such as the Big Five personality traits (conscientiousness, extraversion, openness to experience, emotional stability, and agreeableness), creativity, and self-esteem are important predictors of many successful educational and labor market outcomes, including highest completed education level, productivity in the labor market, retention rates, and wages (see, e.g., Barrick and Mount, 1991; Salgado, 1997; Bowles et al., 2001; Heckman et al., 2006; Heineck, 2011).

In this paper, we focus our attention on one specific non-cognitive skill: locus of control. Locus of control represents a person's generalized attitude, belief, or expectancy regarding the nature of the causal relationship between his/her behavior and its consequences (Rotter, 1966; Lefcourt, 1976). The distinction is typically made between "internal" locus of control – that is, the belief that much of what happens in life stems from one's own actions – and "external" locus of control – that is, the belief that events in one's life are outcomes of external factors (e.g., fate, luck, other people) and are therefore beyond one's control.

Empirical evidence that documents the benefits of internal locus of control is now becoming well established in the labor market literature (for a review, see Cobb-Clark, 2015). Studies in this area have shown that people who have internal locus of control tend to invest more in human capital accumulation than people with an external locus of control, because the former's expected return to human capital investment is higher (Coleman and DeLeire, 2003). People with internal locus of control also tend to live a healthier lifestyle through healthier diets and exercise (Cobb-Clark et al., 2014), save more money for "rainy days" (Cobb-Clark et al., 2013), invest more time to stimulate cognitively their children (Lekfuangfu et al., 2014), and hold riskier assets (Salamanca et al., 2013). Another interesting and important property of internal locus of control is grit or perseverance in the face of adversity. For example, evidence is emerging that people who have internal locus of control tend to continue employment following a health shock (Schurer, 2014) and

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<sup>&</sup>lt;sup>1</sup> One exception is a study by Cebi (2007), who does not find internal locus of control to be a significant predictor of educational attainment after cognitive ability is controlled for; however, she finds internal locus of control to be an important predictor of future wages.

search for a job more intensively when unemployed (Caliendo et al., 2015; McGee, 2015).

The current study contributes to the literature on locus of control by investigating whether an individual's belief about the ability to control future outcomes has important implications for the individual's psychological resilience against negative shocks. According to the world-leading scholar on resilience George Bonanno (2004), psychological resilience can be defined as the ability of individuals

in otherwise normal circumstances who are exposed to an isolated and potentially highly disruptive event such as the death of a close relation or a violent or a life-threatening situation to maintain relatively stable, healthy levels of psychological and physical functioning ... as well as the capacity for generative experiences and positive emotions. (pp. 20–21)

The potentials for humans' psychological resilience are important not only to psychologists but also to economists and judges. Knowledge of the extent to which people are psychologically insured against various adverse life events can, for example, improve the way that compensatory damages (or the level of compensation for a bad life event due to negligence) are calculated in the courts of law (Oswald and Powdthavee, 2008). It can also help improve the accuracy of many existing cost—benefit models that take into account people's subjective experiences (see, e.g., Kahneman and Sugden, 2005; Dolan and Kahneman, 2008).

However, although Bonanno and colleagues have been able to show that an average person is remarkably resilient across various adverse life events, including bereavement (Bonanno et al., 2002), sexual assault (Bonanno, 2013), and surviving a terror attack (Bonanno et al., 2005), more remains to be understood about the heterogeneity and the determinants of the heterogeneity that forms the average (Bonanno, 2005).

We hypothesize that people who hold a generalized belief that they are in control of their own future suffer less psychologically from a negative life shock than people who believe that they are unable to influence events affecting them. In other words, we believe that internal locus of control acts as a psychological buffer against many negative events that take place in our lives, including the death of a loved one and job loss. Using a unique longitudinal dataset from Australia, we are

able to show that many life events are detrimental to our life satisfaction and mental health. However, for some life events – for example, becoming seriously injured/ill or becoming a victim of physical violence – the negative effects associated with these life events are significantly smaller for individuals with a strong internal locus of control.

#### 2. Background literature

#### 2.1. Psychological resilience and hedonic capital

Over the last two decades, George Bonanno and his colleagues at the Loss, Trauma, and Emotion Lab have almost single-handedly dominated the field of research of people's propensity for psychological resilience (for a recent review of progress, see Southwick et al., 2014). One of their long-standing research agendas is to empirically establish factors – which may be genetic, epigenetic, developmental, demographic, cultural, economic, or social – that determine psychological resilience and explain why some groups of people may be more resilient than others.

The econometric evidence of individual differences among emotional responses to negative life events is well established. For example, using a latent growth mixture model as an empirical strategy to identify heterogeneity in long-term stress responses, Mancini et al. (2011) report that approximately 59% of the people in their German sample scarcely experienced any emotional loss to the death of a loved one (i.e., their life satisfaction remained relatively high pre- and post-loss), whereas approximately 21% experienced a significant drop in their life satisfaction and then a gradual improvement toward the pre-loss level. In Mancini et al.'s study, 71% of the sample did not report any significant changes in their life satisfaction at the year of divorce, and only 19% experienced a moderate decrease in their subjective well-being. Zhu et al. (2014), using the Health and Retirement Study survey, report that 72% of people experienced zero or minimal depression symptoms prior to, and following, chronic pain onset.<sup>2</sup>

What explains why some groups of individuals are more resilient than others? There is little economic theory in this area. One notable exception is Graham and Oswald (2010), who sketched out a theory in which psychological resilience is conceptualized as a byproduct of how much stock of hedonic capital the individual

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<sup>&</sup>lt;sup>2</sup> For more evidence, see Galatzer-Levy and Bonanno (2013), Lotterman et al. (2014), and Orcutt et al. (2014).

has accumulated over the years. According to Graham and Oswald, the definition of hedonic capital may include

social relationships with partners, friends and colleagues; health ... self-esteem; status; and meaningful work. For some people, religious faith may also play a part. These things are stocks in that they rely on past inputs and are carried across time periods. (p. 373)

This implies that our ability to cope with stress and adversity is determined by the current level of our hedonic capital, which has since been shown to be empirically consistent across types of shocks and types of psychological resources, including the respondent's level of religiosity (Clark and Lelkes, 2005), personality traits (Boyce and Wood, 2011), and childhood experiences (Powdthavee, 2014).

#### 2.2. Locus of control, beliefs, and coping strategy

Conversely, psychologists explain evidence of heterogeneity in psychological resilience as an outcome of individual differences in the efficacy of regulatory strategies (Bonanno and Burton, 2013). Basically, this is the idea that preferences for various coping strategies tend to vary significantly among people and situations. Because some coping strategies have been shown to be more effective for some situations than others (Folkman and Moskowitz, 2004), individuals' decision on whether or not to invest in the more suitable strategies is therefore paramount to the rate of success in people's coping process. For example, in preparation for an examination, students are advised to engage in problem-focused coping prior to the exam, and to practice "distancing" themselves while waiting for their results (Folkman and Lazarus, 1985). By contrast, when dealing with bereavement, it may be more effective for the bereaved initially to adopt some palliative coping strategy to deal with the loss and then later to engage in a more instrumental coping strategy to deal with future plans (Stroebe and Schut, 2001).

One potential explanation for individual differences in people's choices of coping strategies is that there are individual differences in people's perceived locus of control, that is, the extent to which people believe that their actions can lead to the desired outcomes. A small literature in psychology shows that individuals with an internal locus of control tend to react to a problem in a more constructive manner than

those with an external locus of control, such as actively looking for solutions rather than relying solely on emotional support (e.g., Butterfield, 1964; Pearlin and Schooler, 1978; Gianakos, 2002; Ng et al., 2006). In situations amenable to change, persons with an internal locus of control have also been found to use more direct coping efforts and fewer attempts of suppression, whereas externally oriented persons show the reverse pattern (Parkes, 1984). In addition, there is evidence that people's expectations of self-control over their environment play a mediating role in their adaptation process and that individuals with internal locus of control are better adjusted than individuals with external locus of control (Benson and Deeter, 1992).

Given the evidence that individuals who have internal locus of control tend to be more proactive at finding solutions for their problems, it is likely that they will also search more intensively for the most effective coping strategies for a specific situation than individuals who are more external in their perceived locus of control. As a result, there is evidence that people with an internal locus of control tend to suffer less from severe psychiatric disorders (Lefcourt, 1976), particularly from chronic depression (Abramson et al., 1978) and post-traumatic stress disorder (Solomon et al., 1988), and that reported well-being is generally higher among people with a strong internal locus of control (Huebner, 1991; Menec and Chipperfield, 1997; Judge et al., 1998). However, given that previous studies in psychology tend to be based on small crosssections of either students or employees working in specific firms, the extent of any heterogeneity in psychological resilience by locus-of-control type continues to be imperfectly understood. Our study aims to fill this research void by using a nationally representative dataset to estimate systematically the longitudinal relationship between locus of control and psychological resilience for various measures of subjective wellbeing and for various types of negative life events.

#### 3. Data

The data comes from Waves 1-13 of the longitudinal Household Income and Labour Dynamics in Australia (HILDA) Survey — and have been extracted using PanelWhiz (Hahn and Haisken-DeNew, 2013)<sup>3</sup>. The members of 7682 households who

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<sup>&</sup>lt;sup>3</sup> Wave 1 is omitted from our main analysis simply because questions on life events are only available from Wave 2 onwards. However, it is included in the later analysis of lead and lag effects of life events (see Figs 3A-3J and 4A-4J). In addition to this, although there are currently 15 waves of HILDA, at the date of our analysis only Waves 1 to 13 are made available to researchers.

participated in first wave (Wooden et al., 2002)<sup>4</sup> form the basis of the panel pursued in subsequent annual survey waves. Interviews are conducted with all adults (defined as persons 15 years of age or older) who are members of the original sample and any other adults who, in later waves, are residing with an original sample member. Annual re-interview rates (the proportion of respondents from one wave who are successfully interviewed in the next wave) are reasonably high, rising from 87% in Wave 2 to over 96% by Wave 9 (see Watson and Wooden, 2012).

Our dependent variables originate from responses in every wave to (i) one question about overall life satisfaction and (ii) a series of questions about mental health (SF-36). The life satisfaction question reads: "All things considered, how satisfied are you with your life? Pick a number between 0 and 10 to indicate how satisfied you are." A visual aid is used in the administration of these questions and involves a pictorial representation of the scale with the extreme points labeled "totally dissatisfied" and "totally satisfied." By definition, life satisfaction is constructed with an aim to elicit the respondent's past, present, and future global well-being (Diener et al., 1985). It has been shown in the literature to represent a measure of cognitive well-being as opposed to affective well-being.

The mental health questions ask individuals "How much of the time during the past four weeks: a) Have you been a nervous person; b) Have you felt so down in the dumps that nothing could cheer you up; c) Have you felt calm and peaceful; d) Have you felt down; e) Have you been a happy person?" The responses to these questions range from "1. None of the time" to "6. All the time". Responses to these questions are then recoded and transformed into a 0-100 index to form the mental health variable, with a scale that ranges from 0 "worst possible mental health" to 100 "best possible mental health." The SF-36 Mental Health construct has been shown by medical scholars and other researchers to be a good proxy for an individual's usual state of mental well-being (see, e.g., McHorney et al., 1993).

Other variables used in the analysis are asked in a consistent manner every year, with the exception of the locus-of-control variables (asked only in 2003, 2004, 2007, and 2011) and the Big Five personality traits (asked only in 2005, 2009, and 2013).<sup>5</sup>

<sup>4</sup> For details on the top-up sample and the HILDA Survey in general, see Watson and Wooden (2013).

<sup>&</sup>lt;sup>5</sup> To have the personality traits (Big 5) available for all years, we use the average of all available Big Five observations to cover the remaining periods.

To define locus of control, we follow Cobb-Clark and Schurer (2013) and use responses to seven questions, each of which is answered by a score ranging from 1 (strongly disagree) to 7 (strongly agree). The questions are: (1) I have little control over the things that happen to me; (2) There is really no way I can solve some of the problems I have; (3) There is little I can do to change many of the important things in my life; (4) I often feel helpless in dealing with the problems of life; (5) Sometimes I feel that I'm being pushed around in life; (6) What happens to me in the future mostly depends on me; and (7) I can do just about anything I really set my mind to do. We compute the locus-of-control score by adding the responses to questions 1 through 5, subtracting the scores from questions 6 and 7, and adding a constant of 16. Using this metric, the locus-of-control variable ranges between 7 (internal) and 49 (external). A similar index has been used in Andrisani (1977), Pearlin and Schooler (1978), Semykina and Linz (2007), and Caliendo et al. (2015). For ease of interpretation, we reverse these scores so that a higher value represents relatively more internal locus of control

The negative life event variables are taken from responses to the self-completed life event questions, which are available from Wave 2 (2002) onward. In particular, we focus on the following negative life events that the individual may have experienced in the last 12 months:

- (i) Death of a close friend
- (ii) Death of close family members, including spouse and child
- (iii) Major worsening in finances
- (iv) Fired from job or made redundant
- (v) Serious injury/illness to family members
- (vi) Serious personal injury/illness
- (vii) Close family member detained in jail
- (viii) Victim of a property crime
- (ix) Separated from spouse
- (x) Victim of physical violence.

#### 4. Empirical strategy

Let us assume that there exists a well-being function of the form

$$r = h(f(n, n \cdot l, x, t) + e \tag{1}$$

where r denotes some self-reported number or level of well-being collected in the survey. The f(...) function is the individual's true well-being and is observable only to the person asked; h(.) is a non-differentiable function that relates actual to reported well-being; n is a vector of negative life events that either took place in the respondent's life or in that of his/her close friends or relatives; I is the respondent's locus of control; x represents a set of individual characteristics; t is time trend; and t is an error term that subsumes the respondent's inability to communicate accurately his/her well-being level. Here, one of the key assumptions is that negative life events significantly reduce the respondent's well-being, at least in the short run. However, these negative effects are moderated by how much the respondents believe that they can influence their environment and influence the events affecting them. The empirical counterpart of t can be written out as

$$W_{it} = \alpha + \beta_0 l_{it} + \sum_{s=1}^{10} n_{sit} \beta_s + \sum_{s=1}^{10} (n_{sit} \times l_{it}) \gamma_s + \chi'_{it} \lambda + T_t + u_i + e_{it}$$
(2)

where  $W_{it}$  represents either life satisfaction or mental health of individual i at time t;  $T_t$  is dummies for survey year (i.e., 2003 to 2012); and  $u_i$  is the unobserved individual fixed effects. The subscript s denotes a particular type of (negative) shock.

One issue with (2) is that locus of control,  $l_{it}$ , is potentially endogenous in the life satisfaction regression equation. According to Cobb-Cark and Schurer (2013), locus of control has been found to be most stable among working-age individuals and is mostly unrelated to changes in life events. Our own analysis appears to confirm their findings. In addition, it is also possible that any observed relationship between changes in life satisfaction and changes in locus of control are due to both measures sharing common measurement errors over time rather than being causally related to each other.

In an attempt to solve part of this endogeneity problem, we first estimate the following locus-of-control regression equation on the unbalanced subsample of all working-age individuals (21 to 59 years old) who responded to the locus-of-control questions in at least two of waves 3, 4, 7, and 11 ("Sample 1") while retaining almost the same set of explanatory variables used for (2)<sup>7</sup>

<sup>&</sup>lt;sup>6</sup> We refer readers to Table 2A in the Appendix for coefficients on the determinants of changes in locus of control

<sup>&</sup>lt;sup>7</sup> The only main difference between the right-hand sides of (2) and (3) is the absence of locus of control and its interaction terms with negative life events.

$$l_{it} = \delta + \sum_{s=1}^{10} n_{sit} \theta_s + \chi'_{it} \pi + T_t + \omega_i + \varepsilon_{it}. \tag{3}$$

From estimating (3), we are able to obtain the "individual fixed effects,"  $\omega_i$ , or the time-invariant locus of control that is orthogonal to changes in negative life events and the respondent's socio-economic status. This individual specific constant, or fixed effect, is then standardized and used in the estimation of (2) instead of the raw locus of control,  $l_{it}$ . A plot of the distribution of this standardized fixed effect  $\omega_i$  against its pooled raw data counterpart  $l_{it}$  can be seen in Fig. 1. Equation (2) thus becomes

$$W_{it} = \alpha + \beta_0 \omega_i + \sum_{s=1}^{10} n_{sit} \beta_s + \sum_{s=1}^{10} (n_{sit} \times \omega_i) \gamma_s + x'_{it} \lambda + T_t + u_i + e_{it}$$
(4)

where  $\omega_i$  is unexplained, person-specific locus of control obtained from estimating (3). We estimate (4) using a within estimator on the full sample of all working-age individuals across all waves 2–13 ("Sample 2").<sup>8</sup> In doing this, we note that the  $\omega_i$  will drop out, but the interactions with the negative shocks will remain. Note also that  $COV(\omega_i, n_{sit}) = 0$  by design. Given that many of these events are closely related (e.g. unemployment and worsening of finances), we followed Cobb-Clark and Schurer's (2014) empirical strategy and estimate (4) separately for each of the ten negative life events.

To aid the interpretation of the coefficients in our fully interacted model, we standardize both the outcome variable and the locus of control variable to have a mean of 0 and a standard deviation of 1. This implies that we can interpret the coefficient on a negative life event s,  $\beta_s$ , as the well-being effect of this life event on respondents who have an average locus of control – that is, whose standardized locus of control is equal to 0 – and  $\beta_s$  +  $\gamma_s$  as the well-being effect of this life event on respondents whose standardized locus of control is one standard deviation above the mean.

For ease of interpretation, all of our estimation is carried out using either a random-effects or a fixed-effects linear model with cluster-robust standard errors (clustered at the individual level) (Cameron and Miller, 2013) <sup>9</sup>.

<sup>&</sup>lt;sup>8</sup> Allowing for an extensive set of control variables, we have 29 242 observations (12 047 unique individuals) in Sample 1. In Sample 2 we are able to maintain 87 005 observations with the same number of individuals. Summary statistics of all variables used in the analysis can be found in Table 1A in the Appendix.

<sup>&</sup>lt;sup>9</sup> Following the work by Ferrer-i-Carbonell and Frijters (2004), it should be stated here that it makes qualitatively little difference whether one assumes ordinality or cardinality in the subjective well-being data. For example, running an ordered probit model with random effects produces a similar trade-offs between different variables in the regression as running a GLS regression. However, it is considered

#### 5. Results

Table 2 presents our first estimates from the random-effects and fixed-effects micro-econometric models of life satisfaction, with unexplained, person-specific locus of control shown on the right-hand side (i.e., the estimated  $\omega_i$  from (3)). The dependent variable is standardized self-reported satisfaction with life as a whole. Exogenous variables consist of that appears in the random-effects regressions. Individual characteristics include log of real disposable personal income and dummies for current labor market status, marital status, highest completed education level, and homeownership status, self-assessed health, and total number of resident and non-resident children. We also include each of the within-person average of the Big Five personality traits (extraversion, agreeableness, conscientiousness, emotional stability, and openness to experience), as well as their interactions with the negative life events, to allow for the possibility that the well-being effects of the negative life events on life satisfaction vary among people by different personality types rather than by different locus-of-control types.<sup>10</sup>

Column 1 of Table 2 presents simple random-effects regressions in which the only right-hand side variables are standardized locus of control, each of the ten negative life events entered separately, a set of exogenous control variables, and year dummies. Standardized locus of control, in which a positive deviation from the mean indicates a relatively more internalized person, and a negative deviation from the mean indicates a relatively more externalized person, enters the life satisfaction regression equation in a positive and statistically well-defined manner. This implies that individuals who are relatively more internalized in their perceived locus of control tend to report higher levels of life satisfaction than individuals who are relatively more externalized, consistent with previous findings in this area (Huebner, 1991; Menec and Chipperfield, 1997; Judge et al., 1998). The estimated partial correlation appears to be moderately sizeable for a variable in a life satisfaction

much more important for researchers to allow for individual fixed effects in their econometric model, which is something we are able to do in our study.

<sup>&</sup>lt;sup>10</sup> Although personality traits have generally been shown to be relatively stable over time (Cobb-Clark and Schurer, 2012), other studies have shown them to be powerful predictors of within-person changes in life satisfaction (Boyce et al., 2013).

<sup>&</sup>lt;sup>11</sup> Although there are ten separate coefficients on "Standardized LOC" from estimating (4) separately ten times, they all share similar size and statistical significance.

regression model; a 1 standard deviation increase in locus of control is associated with an approximately 0.3 standard deviation increase in life satisfaction.

Regarding the negative life events that took place within the last twelve months, we can see that nine out of ten events (with the exception of death of close family members) are negatively and statistically significantly related to life satisfaction. The ranking of the partial correlations between life satisfaction and negative life events is in the following order: major worsening in finance (-0.473), victim of physical violence (-0.326), separated from spouse (-0.317), serious personal injury/illness (-0.209), victim of a property crime (-0.107), fired from job or made redundant (-0.107), close family member detained in jail (-0.057), death of a close friend (-0.038), serious injury/illness to family members (-0.031), and death of close family members (-0.011).

Column 2 of Table 2 introduces the interaction terms between standardized locus of control and each of the ten negative life events as regressors in the random-effects regression equation. Of the ten interaction coefficients, three (major worsening in finances, serious personal injury/illness and victim of a property crime) are positive and statistically significant at least at the 5% level. This implies that the effects of these three life events on life satisfaction are statistically significantly less negative for individuals who are relatively more internal in their perceived locus of control than the mean. Qualitatively similar results are obtained in Column 3 of Table 2 when we control for individual characteristics as well as the Big Five personality traits and their individual interaction terms with each of the negative life events.

Finally, in Column 4 of Table 2 we correct for any unobserved heterogeneity bias at the individual level, that is, the presence of  $u_i$ , by introducing individual fixed effects into the linear estimation of (2). Because locus of control is person-specific and time-invariant by design, it naturally drops out from the estimation.

We can see that the positive and statistically significant interaction effect between locus of control and "Major worsening in finances" is now imprecisely estimated after individual fixed effects have been accounted for in the regression model. Conversely, the interaction term for "victim of a property crime" continues to be positively and statistically significantly related to changes in life satisfaction at the 1% level. Column 4 estimates thus produce the following results for, for example, a person who had been a victim of a property crime in the last 12 months. Looking at

the estimated coefficient on the main effect of being a victim of a property crime, we can see that its effect on life satisfaction for a person with an average locus of control is -0.074 [S.E. = 0.014]. However, for a person who is one standard deviation more internal in the perceived locus of control scale than the average, the effect is approximately one half of the effect experienced by a person with an average locus of control at -0.074 + 0.051 = -0.023 [S.E. = 0.019].

In Table 3 we re-estimate the specifications of Table 2 with standardized mental health (SF-36) as the outcome variable. In the full specification model with individual fixed effects, we can see that nine out of ten life events have negative and statistically important main effects on the respondent's mental health (with the exception of close family member detained in jail). However, it appears that the psychic costs for four life events (death of close friends, serious personal injury/illness, close family member detained in jail, and victim of a property crime) are statistically significantly moderated – at least at the 5% confidence level – by internal locus of control. For example, the average well-being effect of losing a close friend is almost completely offset for a person who is one standard deviation more internal in the perceived locus of control scale, that is, -0.047 + 0.033 =-0.014 [S. E. = 0.015]. In addition, there is some weaker evidence that major worsening in finances may also hurt less for relatively more internal locus of control individuals; the coefficient on the interaction between locus of control and "Major worsening in finances" is 0.035 [S. E. = 0.019]. The estimated effects of various life events on both measures of subjective well-being for (i) a person with an average locus of control and (ii) a person whose locus of control is one standard deviation higher than the average are better illustrated in Fig. 2A and Fig. 2B.

Therefore, to summarize the results of Table 2 and Table 3, there is evidence to suggest that internal locus of control acts as a psychological buffer against some but certainly not all types of negative life event.

A natural question of interest is whether adaptation to some negative life events is slow and incomplete for people who are more externalized than people who are more internalized in their perceived locus of control. We do this by expanding (4) to include leads and lags for each of the ten life events – two-year leads and two-year lags – and their interactions with the respondent's locus of control. For practical purposes, we replace standardized locus of control with two dummy variables, which

represent (i) people who are placed at the bottom 25% of the external—internal locus-of-control scale, that is, the strongly externalized, and (ii) people who are placed at the top 25% of the external—internal locus-of-control scale, that is, the strongly internalized. Doing this allows us to compare the well-being dynamics — measured before, during, and after the onset of each life event — between people with a strong external locus of control and people with a strong internal locus of control. We then estimate this new equation using the fixed-effects estimator on a sample in which at least five years of life satisfaction and mental health are consecutively observed (because of the need to go backward two periods and forward two periods). Our empirical strategy here is similar to that adopted by Clark et al. (2008), Frijters et al. (2011), and Powdthavee (2012). Given that the table produced a large number of coefficients, we choose to present only the graphical representations of the implied dynamic effects of each life event on life satisfaction and mental health for people at the different ends of locus-of-control distribution in Fig. 3 and Fig. 4, respectively.

Some interesting patterns emerge when we compare the well-being dynamics before and after each of the ten life events. For example, we can see a statistically significant drop beyond zero in life satisfaction at the year of reporting to be a victim of a property crime for individuals with a strong external locus of control (i.e., the bottom 25% of external-internal locus-of-control scale), but not for those with a strong internal locus of control (i.e., the top 25% of external-internal locus-of-control scale). A similar pattern is also observed with respect to individual's mental health in the years leading to and following a death of a close friend; there is a significant drop in mental health for individuals with a strong external locus of control, but not for those with a strong internal locus of control. People with a strong external locus of control also experienced a significant dip into the negative in both life satisfaction and mental health at the year of becoming seriously injured/ill and at the year of becoming a victim of physical violence, whereas the drops in well-being experienced by people with a strong internal locus of control are either not as negative or statistically insignificantly different from zero. In short, although Figures 3 and 4 confirm our previous results that locus of control acts as a psychological buffer to some adverse events in the short run, we find that in the long-run hedonic adaptation to different negative life events is mostly completed for both groups of individuals.

In Table 4 we test whether the results are qualitatively and quantitatively similar across genders. Looking across the columns, we can see that the main well-

being effects from the majority of the ten life events are negative and statistically significant for both males and females.

With respect to life satisfaction, internal locus of control acts as psychological insurance against only one life event for women and against three life events for men. For women, the life event is being fired from a job or made redundant. For men, it appears that internal locus of control actually buffers the negative effects arising from becoming seriously injured or ill, having a close family member detained in jail, and becoming a victim of a property crime. Interestingly, for women, internal locus of control amplifies the negative well-being effect from having a close family member detained in jail – although the estimated negative interaction effect is only marginally significant at the 10% level. What this seems to suggest is that females who have internal locus of control may be more likely to blame themselves or feeling guilt or shame for not having prevented the incarceration of a close relative, whereas females who have external locus of control would consider the incarceration of the family member to be inevitable and so would not feel personal blame, shame, or guilt.

In terms of mental health, relatively more internalized men, but not women, are buffered psychologically from death of a close friend, major worsening in finances, and becoming seriously injured/ill. This implies that, although the main effects of the life events are generally qualitatively similar across male and female subgroups, there is some noticeable heterogeneity by gender with respect to the extent in which internal locus of control moderates these negative effects. <sup>12</sup>

#### 6. Discussions

Our results indicate some benefits to having a strong internal locus of control in the face of adversity. Yet, despite our preferred interpretation of these results being that individuals with a strong internal locus of control are more likely to react to a problem by actively looking for solutions rather than relying solely on emotional support (e.g., Butterfield, 1964; Gianakos, 2002; Ng et al., 2006), we still cannot rule out other potential explanations for our findings. We list some of our caveats and other testable hypotheses on the possible mechanisms here.

<sup>&</sup>lt;sup>12</sup> One natural objection is that people with external locus of control may drop out more frequently from the panel than people with internal locus of control. Nevertheless, a further investigation in Table 3A in the Online Appendix reveals that qualitatively similar results can be obtained using a smaller, balanced panel sample across all waves (waves 2–12).

One hypothesis is that individuals with a strong internal locus of control may endogenously select themselves into some types of events that would normally be considered negative by normative standards. For instance, because uncertain outcomes feel less certain to people with a strong internal locus of control, it is conceivable that they may be much more risk-loving than people with a strong external locus of control (see, e.g., Salamanca et al., 2013), which may lead to the former reporting the experience of "major worsening in finances" (through risk investments) and/or "becoming seriously injured/ill" (through risky lifestyles) than the latter. However, the treatment effect on these individuals' well-being is unlikely to be the same as for individuals who may not have selected themselves into making risky investments or into a risky situation.

To test whether individuals who are relatively more internal in their perceived locus of control are also more likely to make risky investments, Table 5 estimates separately by gender a set of random effects regression equations in which the dependent variable is standardized individual's willingness to take financial risks with their spare cash<sup>13</sup>. Consistent with Salamanca et al. (2013), who demonstrated using Dutch data, we find that individuals with internal locus of control are, on average, more likely than individuals with external locus of control to take substantial financial risks with an expectation of receiving substantial financial returns. This result, noticeably stronger for men, is robust to controlling for negative life events and other individual characteristics. In other words, negative life events such as "Major worsening in finances" and "Serious personal injury/illness" are more likely to occur – and therefore expected – among individuals with a relatively strong internal locus of control, thus explaining in part why these events may "hurt" these individuals less compared to those who are less likely to select themselves into experiencing these life events.

<sup>&</sup>lt;sup>13</sup> There are two different variables on willingness to take financial risks: FIRISK and FIRISKA. FIRISK is derived from a self-completed question: "Which of the following statements comes closest to describing the amount of financial risk that you are willing to take with your spare cash? That is, cash used for savings or investment. 1= Not willing to take financial risks, ..., 5 = Takes substantial risks expecting substantial returns.", whereas FIRISKA is derived from a similar self-completed question: "Assume you had some spare cash that can be used for savings or investment. Which of the following statements comes closest to describing the amount of financial risks that you would be willing to take with this money? 1= Not willing to take financial risks, ..., 5 = Takes substantial risks expecting substantial returns." There are 10 waves of FIRISK (Waves 1-4, 6, 8, 10-13), and 6 waves of FIRISKA (Waves 6, 8, 10-13).

Another alternative explanation is that people with a strong internal locus of control tend to invest early and more intensively in accumulations of human capital, health capital, and social capital than people within a strong external locus of control (see, e.g., Coleman and DeLeire, 2003; Cobb-Clark et al., 2014), and this may act as an indirect psychological insurance against future shocks. This would be more consistent with the idea of "hedonic capital," or the theory that people with a large stock of psychological resources tend to be more resilient in general (Graham and Oswald, 2010; see also Powdthavee, 2014). In other words, it is possible that the moderation effects observed in our study are caused by long-run lagged impacts of early accumulations of these hedonic capitals rather than short-run contemporaneous impacts of internal locus of control, which has so far been our preferred interpretation of the estimated interaction effects.

To test whether people with an internal locus of control have higher levels of accumulated psychological resources than individuals with an external locus of control, Tables 6 and 7 estimate separately by gender a set of random effects and fixed effects regressions in which the dependent variables are standardized responses to the question: "How often the respondent get together socially with friends/relatives not living in the same household?" (LSSOCAL). 14 We also include as independent variables a set of interactions between individual's locus of control and negative life events in order to test whether individuals with a strong internal locus of control also benefit more from their stock of social capital following a negative life shock.

Looking across columns of both Tables 6 and 7, we can see from the random effects regressions that men and women with a relatively stronger internal locus of control tend to socialize more with their friends and/or relatives not living with them. We find little evidence to suggest that either men or women with an internal locus of control see more of their friends and/or relatives following a major life shock – although this is probably due partly to the way the question on seeing friends was phrased in HILDA (i.e. most people are probably less likely to get together socially with friends and/or relatives following a major negative life event, regardless of their locus of control).

The estimates in Tables 5, 6 and 7 imply that our original findings may have been significantly confounded by omitting individual's attitudes toward risks and the

<sup>&</sup>lt;sup>14</sup> The LSSOCAL question appeared in every wave in HILDA, with the possible responses range from "1. Less often than once every 3 months" to "7. Everyday".

extent of social capital from the well-being equation. Nevertheless, we find that allowing for individual's willingness to take financial risks and the extent of social capital in the fixed effects life satisfaction and mental health regressions does very little to change the estimates obtained from an estimation that does not condition for both variables in the regression.<sup>15</sup>

Table 8 carried out – as suggested by a referee – an additional check on the possible heterogeneous effects of positive life events on well-being by individual's perceived locus of control. One hypothesis is that, in addition to the buffering effect of internal luck of control on negative life shocks, individuals with an internal locus of control may also be more elated by a positive life event simply because they would have attributed the good fortunes to their own actions. However, we could only find evidence to suggest the opposite. Looking across Table 8's columns, we can see that the positive effect of a major improvement in finances on life satisfaction is significantly reduced for women with a strong internal locus of control, while the positive effect of being promoted at work on mental health is significantly reduced for men with a strong internal locus of control. In other words, it appears that people with a strong internal locus of control are not only psychologically insured against some negative life shocks, but they are also less likely to experience a large increase in their well-being following certain positive life events. We cannot be certain why having internal locus of control moderates (rather than amplifies) the well-being effect of a positive life event, but one reason could be that these positive life events (e.g. major improvement in finances and promotion at work) tend to be anticipated by individuals with an internal locus of control. However, it seems likely that future research will have to return to this issue.

Finally, one referee suggested that it might be worth to improve the timing of each life event in our analysis by utilizing the quarterly timing data available in the HILDA. In addition to asking individuals whether each life event happened during the past 12 months, if the person answered 'YES' then he/she would have also been asked to indicate how long ago the event happened or started. The information is then given

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<sup>&</sup>lt;sup>15</sup> See Table 4A in the Appendix for the fixed effects estimates. Note the reduced sample size from Tables 3 and 4 in Table 4A, which has resulted in a loss of statistical significance in some of the estimated interaction effects. This is simply because we only have 9 waves in which both FIRISK and the life event variables appear together in the same wave (Waves 2-4, 6, 8, 10-13).

by quarter<sup>16</sup>. As a check, we re-estimated our main regression equations with the quarterly data and reported the results in Table 5A in the Appendix. We find that, in a lot of cases – especially when mental health is the outcome of interest, the effect of an adverse life event is notably more negative when it happened closer to the time of the interview. Additionally, we found that for life events that internal locus of control acts as a psychological buffer against (see Tables 3 and 4), the buffering effect tends to be more positive and statistically more robust for those events that happened relatively recently (i.e., 0-3 months prior to the interview) compared to events that happened a while ago (i.e., 10-12 months prior to the interview). However, because these quarterly variables have a significantly smaller cell size compared to the life event variables used in Tables 3 and 4, care must be taken when interpreting the interaction effects between these variables and the interaction effect in a fixed effects regression.

#### 7. Conclusion

In this paper we set out to test the importance of internal locus of control (or self-efficacy) on people's subjective well-being in the face of adversity. Using unique longitudinal data for Australia, we initially show that individuals with internal locus of control are generally more satisfied with life and have better mental health than those with external locus of control. We are also able to present evidence that an onset of most of the selected negative life events is observed together with a significant dip in both measures of subjective well-being, particularly within 12 months of having experienced a major worsening in finances, becoming seriously injured/ill, separating from spouse, or becoming a victim of physical violence.

However, some evidence indicates that people who are more internal in their perceived locus of control tend to either suffer less from or be entirely indifferent to some negative life events than people who are more external in their perceived locus of control. The internal locus of control's capacity to buffer against shocks varies by gender, and its marginal benefit is more apparent for people with a strong internal locus of control. Our findings thus contribute to the rapidly expanding literature with new evidence of the benefits of internal locus of control and the importance of non-cognitive skills on people's lives in general.

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<sup>&</sup>lt;sup>16</sup> See Frijters et al. (2011) for an example that utilizes the quarterly timing data of life events in the analysis of life satisfaction.

Like most papers in social sciences, our study is not without significant limitations. One important caveat is that the observed buffering effects of internal locus of control may simply be due to differences in the actual intensity of the treatment effect (e.g. illness, worsening in finances), which a binary variable cannot capture. For example, it might be the case that a cancer patient and someone who suffers from hypertension would have responded to the "serious personal injury/illness" in the same way (for a discussion of this particular issue, see, e.g., Schurer, 2014). Another natural objection to our results will always be that internal locus of control is not randomized across the sample. Although our fixed-effects estimation may have taken care of the unobserved person-specific characteristics that correlate simultaneously with internal locus of control and with being more psychologically resilient to some life events, we still do not know enough about what may have caused someone to be relatively more internal in their perceived locus of control in the first place. This is a difficult question to address, given that we are not able to influence people's locus of control through a randomized control trial (or to find an appropriate variable to instrument for locus of control) prior to them experiencing each of the ten studied life events. Because of the abovementioned reasons, our estimates need to be treated with caution, and future research should return to studying the origins and the determinants of internal locus of control in a systematic way.

#### Acknowledgement

For detailed suggestions, we are deeply grateful to Nikhil Jha, Stefanie Schurer, Mark Wooden, and Jongsay Yong. Support from the US National Institute on Aging (Grant R01AG040640), the John Templeton Foundation and the What Works Centre for Wellbeing is gratefully acknowledged. Support from the US National Institute on Aging (Grant R01AG040640), the John Templeton Foundation and the What Works Centre for Wellbeing is gratefully acknowledged. The HILDA Project was initiated and is funded by the Australian Government Department of Families, Housing, Community Services and Indigenous Affairs (FaHCSIA) and is managed by the Melbourne Institute of Applied Economic and Social Research (Melbourne Institute).

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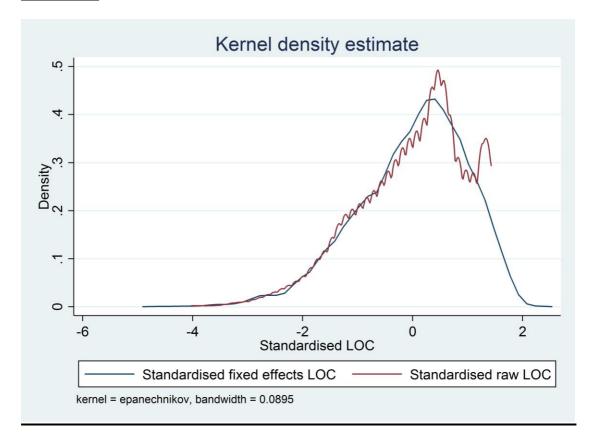
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**Table 1: Descriptive statistics** 

	M	SD	Min	Max
Life satisfaction (raw score)	7.77	1.44	0	10
Mental health (raw score)	73.89	16.91	0	100
Locus of control (raw score) - Waves 3, 4, 7, & 11	38.06	7.66	7	49
Negative life events				
Death of a close friend	0.09	0.28	0	1
Death of close family members	0.10	0.30	0	1
Major worsening in finances	0.04	0.18	0	1
Fired or made redundant	0.04	0.19	0	1
Serious injury/illness to family members	0.16	0.37	0	1
Serious personal injury/illness	0.07	0.26	0	1
Close family member detained in jail	0.01	0.12	0	1
Victim of a property crime	0.05	0.21	0	1
Separated from spouse	0.04	0.20	0	1
Victim of physical violence	0.02	0.12	0	1
<b>Exogenous personal characteristics</b>				
Male	0.47	0.50	0	1
Age	40.31	10.61	21	59
Ln(real personal income)	10.44	0.85	0.07	13.52
Current employment status				
Employed Full-time	0.58	0.49	0	1
Employed: Part-time	0.22	0.41	0	1
Unemployed: Looking for full-time work	0.02	0.15	0	1
Unemployed: looking for part-time work	0.01	0.09	0	1
Not in the labour force, marginally attached	0.05	0.22	0	1
Not in the labour force, not marginally attached	0.12	0.32	0	1
Employed, but usual work hours are unstable	0.00	0.02	0	1
Current marital status				
Married	0.56	0.49	0	1
De facto	0.16	0.37	0	1
Separated	0.03	0.18	0	1
Divorced	0.06	0.24	0	1
Widowed	0.01	0.09	0	1
Never married and not de facto	0.17	0.38	0	1
Current long-term health status	0.00	0.02	0	
Long-term health impairment: Yes = 1	0.00	0.02	0	1
Highest education level completed	0.05	0.21	0	1
Postgraduate degree	0.05	0.21	0	1
Graduate diploma/certificate	0.17	0.38	0	1
Bachelor honours	0.07	0.25	0	1
Advanced diploma, diploma	0.17	0.37	0	1
Cert III or IV	0.10	0.30	0	1
Year 11 and below	0.23	0.42	0	1
Year 11 and below	0.15	0.35	0	1
Current number of children	0.01	0.12	0	4
Non-resident children aged 0-4	0.01	0.12	0	4
Non-resident children aged 2-5	0.30	0.78	0	10

Non-resident children aged 6-14	0.05	0.31	0	6	
Non-resident children aged 15-24	0.20	0.55	0	6	
Resident children aged 0-4	0.25	0.57	0	4	
Resident children aged 2-5	0.03	0.18	0	5	
Resident children aged 6-14	0.49	0.86	0	7	
Resident children aged 15-24	0.29	0.66	0	7	
Current homeownership status					
Own home/paying mortgage	0.69	0.46	0	1	
Rent or pay board	0.29	0.45	0	1	
Involved in a rent-buy scheme	0.00	0.03	0	1	
Live here rent free/free tenure	0.02	0.15	0	1	
Raw Big Five personality variables (average)					
Agreeableness	5.40	0.82	1	7	
Conscientiousness	5.10	0.94	1	7	
Emotional stability	5.12	0.95	1	7	
Extraversion	4.43	1.02	1	7	
Openness to experience	4.27	0.97	1	7	

<u>Figure 1: A Kernel plot of the standardized locus of control distributions (fixed versus raw)</u>



<u>Table 2: Random effects and fixed effects life satisfaction regression equations</u> with locus of control and negative life events as independent variables

Death of close family members         (0.010)         (0.010)         (0.010)         (0.010)         (0.010)         0.011         -0.008         -0.008           Major worsening in finances         -0.473****         -0.456****         -0.390***         -0.348           Fired or made redundant         -0.107***         -0.102***         -0.070***         -0.02**           Fired or made redundant         -0.017***         -0.102***         -0.031***         -0.02           Serious injury/illness to family members         -0.031***         -0.030***         -0.031***         -0.03           Serious personal injury/illness         -0.000**         -0.007*         (0.007)         (0.002)         (0.012)         (0.012)         (0.012)         (0.012)         (0.012)         (0.012)         (0.012)         (0.012)         (0.012)         (0.012)         (0.0	VARIABLES	RE (1)	RE (2)	RE (3)	FE (4)
Negative life events	External-Internal scale				
Negative life events	Standardized locus of control	0.330***	0.330***	0.260***	
Death of a close friend		(0.007)	(0.007)	(0.008)	
Death of close family members   0.010   0.010   0.010   0.010   0.010   0.010   0.010   0.010   0.010   0.010   0.008   0.002   0.022   0.022   0.023   0.022   0.022   0.023   0.022   0.022   0.023   0.022   0.022   0.023   0.022   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.022   0.023   0.02	Negative life events				
Death of close family members	Death of a close friend	-0.038***	-0.038***	-0.034***	-0.038***
Major worsening in finances  -0.473*** -0.456*** -0.390*** -0.390** -0.345** -0.3456*** -0.390*** -0.345*** -0.3456*** -0.390*** -0.345*** -0.3456*** -0.390*** -0.345*** -0.362** -0.0023* (0.022) (0		(0.010)	(0.010)	(0.010)	(0.010)
Major worsening in finances	Death of close family members	-0.011	-0.011	-0.008	-0.008
Fired or made redundant		(0.008)	(0.008)	(0.008)	(0.008)
Fired or made redundant	Major worsening in finances	-0.473***	-0.456***	-0.390***	-0.349***
Serious injury/illness to family members		(0.022)	(0.023)	(0.022)	(0.023)
Serious injury/illness to family members	Fired or made redundant	-0.107***	-0.102***	-0.070***	-0.044***
Serious personal injury/illness		(0.017)	(0.017)	(0.017)	(0.017)
Serious personal injury/illness	Serious injury/illness to family members	-0.031***	-0.030***	-0.031***	-0.025***
Close family member detained in jail		(0.007)	(0.007)	(0.007)	(0.007)
Close family member detained in jail	Serious personal injury/illness	-0.209***	-0.202***	-0.168***	-0.152***
Victim of a property crime  -0.107*** -0.104*** -0.092*** -0.07*  (0.014) (0.013) (0.013) (0.013) (0.013)  Separated from spouse -0.317*** -0.317*** -0.201*** -0.205*  (0.019) (0.019) (0.019) (0.021) (0.022)  Victim of physical violence -0.326*** -0.318*** -0.285*** -0.257*  (0.032) (0.032) (0.035) (0.035)  Interaction terms  Death of a close friend × Standardized LOC -0.002 0.015 (0.012)  Death of close family members × Standardized LOC -0.001 -0.007 -0.007  Major worsening in finances × Standardized LOC -0.001 (0.010) (0.011) (0.012)  Fired or made redundant × Standardized LOC -0.038* 0.038* 0.033 0.024*  Serious injury/illness to family members × Standardized LOC -0.008 0.016* 0.011  Serious personal injury/illness × Standardized LOC -0.008 0.016* 0.011  Close family member detained in jail × Standardized LOC -0.0032** 0.042** 0.042** 0.025*  Close family member detained in jail × Standardized LOC -0.0032** 0.0032		(0.012)	(0.012)	(0.012)	(0.012)
Victim of a property crime       (0.028)       (0.027)       (0.027)       (0.028)         Victim of a property crime       -0.107***       -0.104***       -0.092***       -0.07*         Separated from spouse       (0.014)       (0.013)       (0.014)       (0.013)       (0.012)         Victim of physical violence       (0.019)       (0.019)       (0.019)       (0.021)       (0.022)         Victim of physical violence       -0.326***       -0.318***       -0.285***       -0.257*         Interaction terms         Death of a close friend X Standardized LOC       -0.002       0.015       0.012         Death of close family members X Standardized LOC       0.001       -0.007       -0.002         Death of close family members X Standardized LOC       0.001       -0.007       -0.002         Major worsening in finances X Standardized LOC       0.042**       0.044**       0.025         Fired or made redundant X Standardized LOC       0.038*       0.033       0.022         Serious injury/illness to family members X Standardized LOC       0.038*       0.016*       0.011         Serious personal injury/illness X Standardized LOC       0.032**       0.042***       0.025 <t< td=""><td>Close family member detained in jail</td><td>` '</td><td>-0.057**</td><td></td><td>-0.031</td></t<>	Close family member detained in jail	` '	-0.057**		-0.031
Country   Coun		(0.028)	(0.027)	(0.027)	(0.028)
Separated from spouse         -0.317***         -0.317***         -0.201***         -0.202**           Victim of physical violence         -0.326***         -0.318***         -0.255***         -0.255*           Interaction terms         -0.002         (0.032)         (0.035)         (0.035)           Death of a close friend X Standardized LOC         -0.002         0.015         (0.012)           Death of close family members X Standardized LOC         (0.011)         (0.012)         (0.012)           Major worsening in finances X Standardized LOC         (0.021)         (0.022)         (0.022)           Fired or made redundant X Standardized LOC         0.038*         0.033         0.022           Serious injury/illness to family members X Standardized LOC         0.038*         0.033         0.022           Serious personal injury/illness X Standardized LOC         0.008         0.016*         0.011           Serious personal injury/illness X Standardized LOC         0.008         0.016*         0.011           Close family member detained in jail X Standardized LOC         0.032**         0.042***         0.022           Victim of a property crime X Standardized LOC         0.058***         0.064***         0.051           Victim of physical violence X Standardized LOC         0.058***         0.064*** <t< td=""><td>Victim of a property crime</td><td>-0.107***</td><td>-0.104***</td><td>-0.092***</td><td>-0.074***</td></t<>	Victim of a property crime	-0.107***	-0.104***	-0.092***	-0.074***
Separated from spouse         -0.317***         -0.317***         -0.201***         -0.202**           Victim of physical violence         -0.326***         -0.318***         -0.255***         -0.255*           Interaction terms         -0.002         (0.032)         (0.035)         (0.035)           Death of a close friend X Standardized LOC         -0.002         0.015         (0.012)           Death of close family members X Standardized LOC         (0.011)         (0.012)         (0.012)           Major worsening in finances X Standardized LOC         (0.021)         (0.022)         (0.022)           Fired or made redundant X Standardized LOC         0.038*         0.033         0.022           Serious injury/illness to family members X Standardized LOC         0.038*         0.033         0.022           Serious personal injury/illness X Standardized LOC         0.008         0.016*         0.011           Serious personal injury/illness X Standardized LOC         0.008         0.016*         0.011           Close family member detained in jail X Standardized LOC         0.032**         0.042***         0.022           Victim of a property crime X Standardized LOC         0.058***         0.064***         0.051           Victim of physical violence X Standardized LOC         0.058***         0.064*** <t< td=""><td></td><td>(0.014)</td><td>(0.013)</td><td>(0.013)</td><td>(0.014)</td></t<>		(0.014)	(0.013)	(0.013)	(0.014)
Victim of physical violence       (0.019)       (0.019)       (0.021)       (0.022)         Victim of physical violence       -0.326***       -0.318***       -0.285***       -0.257*         (0.032)       (0.032)       (0.035)       (0.036)         Interaction terms         Death of a close friend × Standardized LOC       -0.002       0.015       0.012         (0.011)       (0.012)       (0.012)       (0.011)       (0.011)         Death of close family members × Standardized LOC       0.001       -0.007       -0.007         Major worsening in finances × Standardized LOC       0.042**       0.044**       0.025         Fired or made redundant × Standardized LOC       0.038*       0.033       0.022         Fired or made redundant × Standardized LOC       0.038*       0.033       0.022         Serious injury/illness to family members × Standardized LOC       0.008       0.016*       0.011         Serious personal injury/illness × Standardized LOC       0.032**       0.042***       0.025         Close family member detained in jail × Standardized LOC       0.032**       0.042***       0.025         Victim of a property crime × Standardized LOC       0.058****       0.064***       0.051         Separated from spouse × Standardized LOC <t< td=""><td>Separated from spouse</td><td></td><td></td><td>` '</td><td>-0.205***</td></t<>	Separated from spouse			` '	-0.205***
Victim of physical violence					(0.022)
Interaction terms         (0.032)         (0.032)         (0.035)         (0.035)           Death of a close friend ★ Standardized LOC         -0.002         0.015         0.013           Death of close family members ★ Standardized LOC         0.001         -0.007         -0.007           Major worsening in finances ★ Standardized LOC         0.042**         0.044**         0.022           Fired or made redundant ★ Standardized LOC         0.038*         0.033         0.022           Fired or made redundant ★ Standardized LOC         0.038*         0.033         0.022           Serious injury/illness to family members ★ Standardized LOC         0.008         0.016*         0.011           Serious personal injury/illness ★ Standardized LOC         0.032**         0.042***         0.025           Serious personal injury/illness ★ Standardized LOC         0.032**         0.042***         0.025           Close family member detained in jail ★ Standardized LOC         0.032**         0.042***         0.025           Victim of a property crime ★ Standardized LOC         0.058***         0.064***         0.051           Victim of physical violence ★ Standardized LOC         0.058***         0.064***         0.051           Victim of physical violence ★ Standardized LOC         0.009         -0.014         -0.012 <tr< td=""><td>Victim of physical violence</td><td></td><td>` ′</td><td></td><td>-0.257***</td></tr<>	Victim of physical violence		` ′		-0.257***
Death of a close friend × Standardized LOC	• •				(0.036)
Death of close family members × Standardized LOC	Interaction terms	()	(******)	()	()
Death of close family members × Standardized LOC	Death of a close friend X Standardized LOC		-0.002	0.015	0.013
Death of close family members × Standardized LOC					(0.013)
Major worsening in finances × Standardized LOC	Death of close family members X Standardized LOC				-0.007
Major worsening in finances × Standardized LOC       0.042**       0.044**       0.024         Fired or made redundant × Standardized LOC       0.038*       0.033       0.024         Serious injury/illness to family members × Standardized LOC       0.008       0.016*       0.011         Serious personal injury/illness × Standardized LOC       0.032**       0.042***       0.025         Serious personal injury/illness × Standardized LOC       0.032**       0.042***       0.025         Close family member detained in jail × Standardized LOC       0.004       0.002       0.011         Victim of a property crime × Standardized LOC       0.058***       0.064***       0.051         Separated from spouse × Standardized LOC       0.058***       0.064***       0.051         Victim of physical violence × Standardized LOC       0.028       0.022       0.022         Victim of physical violence × Standardized LOC       0.028       0.022       0.023         Year dummies       Yes       Yes       Yes       Yes       Yes         Exogenous variables       Yes       Yes       Yes       Yes       Yes       Yes         Individual characteristics       No       No       No       Yes       Yes					(0.011)
Fired or made redundant × Standardized LOC  Fired or made redundant × Standardized LOC  Serious injury/illness to family members × Standardized LOC  Serious personal injury/illness × Standardized LOC  Serious personal injury/illnes	Major worsening in finances X Standardized LOC				0.028
Fired or made redundant × Standardized LOC	.,				(0.023)
Control   Cont	Fired or made redundant X Standardized LOC				0.024
Serious injury/illness to family members X Standardized LOC       0.008       0.016*       0.018         Serious personal injury/illness X Standardized LOC       0.032**       0.042***       0.029         Close family member detained in jail X Standardized LOC       -0.004       0.002       0.011         Close family member detained in jail X Standardized LOC       -0.004       0.002       0.011         Victim of a property crime X Standardized LOC       0.058***       0.064***       0.051         Separated from spouse X Standardized LOC       -0.009       -0.014       -0.017         Victim of physical violence X Standardized LOC       0.028       0.022       0.023         Year dummies       Yes					(0.022)
Close family member detained in jail × Standardized LOC   Close family m	Serious injury/illness to family members X Standardized LOC				, ,
Serious personal injury/illness × Standardized LOC         0.032**         0.042***         0.029           (0.014)         (0.015)         (0.015)         (0.015)           Close family member detained in jail × Standardized LOC         -0.004         0.002         0.011           Victim of a property crime × Standardized LOC         0.058***         0.064***         0.051           Victim of property crime × Standardized LOC         -0.009         -0.014         -0.017           Separated from spouse × Standardized LOC         -0.009         -0.014         -0.017           Victim of physical violence × Standardized LOC         0.028         0.022         0.022           Vear dummies         Yes					(0.010)
Close family member detained in jail × Standardized LOC	Serious personal injury/illness X Standardized LOC		, ,		0.029*
Close family member detained in jail × Standardized LOC       -0.004       0.002       0.011         Victim of a property crime × Standardized LOC       0.058***       0.064***       0.051         Victim of a property crime × Standardized LOC       0.016       (0.016)       (0.018)       (0.018)         Separated from spouse × Standardized LOC       -0.009       -0.014       -0.017         Victim of physical violence × Standardized LOC       0.028       0.022       0.023         Year dummies       Yes	Sunday personal injury, inness				
Victim of a property crime × Standardized LOC  Victim of a property crime × Standardized LOC  Separated from spouse × Standardized LOC  Victim of physical violence × Standardized LOC  Victim of physical violence × Standardized LOC  Vear dummies  Yes  Yes  Yes  Yes  Yes  Yes  Yes	Close family member detained in iail X Standardized LOC		` ′		
Victim of a property crime X Standardized LOC         0.058***         0.064***         0.051           Separated from spouse X Standardized LOC         -0.009         -0.014         -0.017           Victim of physical violence X Standardized LOC         0.028         0.022         0.023           Year dummies         Yes         Ye	ciose imini, memori demined in jun — siandardized 200				
(0.016) (0.018) (0.018   Separated from spouse × Standardized LOC	Victim of a property crime X Standardized LOC				0.051***
Separated from spouse $\times$ Standardized LOC $-0.009$ $-0.014$ $-0.017$ $(0.019)$ $(0.022)$ $(0.022)$ Victim of physical violence $\times$ Standardized LOC $0.028$ $0.022$ $0.023$ $(0.031)$ $(0.036)$ $(0.035)$ Year dummies Yes Yes Yes Yes Yes Yes Exogenous variables Yes Yes Yes Yes Yes Yes Individual characteristics No No No Yes Yes	Sumum of a property crime				(0.018)
Victim of physical violence $\times$ Standardized LOC	Separated from spouse X Standardized LOC				-0.017
Victim of physical violence $\times$ Standardized LOC0.028 (0.031)0.022 (0.036)0.023 (0.035)Year dummiesYesYesYesYesYesExogenous variablesYesYesYesYesYesIndividual characteristicsNoNoYesYes					(0.022)
Year dummies         Yes         Yes <t< td=""><td rowspan="2">Victim of physical violence X Standardized LOC</td><td></td><td></td><td></td><td>0.023</td></t<>	Victim of physical violence X Standardized LOC				0.023
Year dummiesYesYesYesYeExogenous variablesYesYesYesYesIndividual characteristicsNoNoYesYe					(0.035)
Exogenous variables Yes Yes Yes Yes Yes Individual characteristics No No Yes Yes	Year dummies	Yes			Yes
Individual characteristics No No Yes Ye					Yes
	<del>-</del>				Yes
Personally traits and their interactions with life events No No Ves Ves	Personality traits and their interactions with life events	No	No	Yes	Yes
·	•				Yes
					87,005
					12,047

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. RE = random effects model. FE = fixed effects model. Robust standard errors – clustered at the individual level – are reported. Life satisfaction is standardized so that it has zero mean and a standard deviation of one. Exogenous variables include age, age-squared, and gender. Individual characteristics include log of real disposable personal income, dummies for current labor market status, marital status, highest completed education level, and homeownership status, self-assessed health, and total number of resident and non-resident children.

<u>Table 3: Random effects and fixed effects mental health regression equations</u> with locus of control and negative life events as independent variables

VARIABLES	RE (1)	RE (2)	RE (3)	FE (4)
External-Internal scale				
Standardized locus of control	0.452***	0.450***	0.320***	
	(0.007)	(0.007)	(0.007)	
Negative life events				
Death of a close friend	-0.063***	-0.061***	-0.056***	-0.047***
	(0.009)	(0.009)	(0.009)	(0.009)
Death of close family members	-0.098***	-0.097***	-0.090***	-0.084***
	(0.008)	(0.008)	(0.008)	(0.008)
Major worsening in finances	-0.445***	-0.435***	-0.374***	-0.338***
	(0.019)	(0.020)	(0.020)	(0.020)
Fired or made redundant	-0.101***	-0.100***	-0.066***	-0.055***
	(0.016)	(0.015)	(0.015)	(0.016)
Serious injury/illness to family members	-0.091***	-0.091***	-0.087***	-0.078***
	(0.007)	(0.007)	(0.007)	(0.007)
Serious personal injury/illness	-0.256***	-0.251***	-0.211***	-0.189***
1 3 7	(0.012)	(0.012)	(0.012)	(0.012)
Close family member detained in jail	-0.107***	-0.098***	-0.076***	-0.044
	(0.026)	(0.026)	(0.025)	(0.027)
Victim of a property crime	-0.069***	-0.068***	-0.058***	-0.042***
victim of a property crime	(0.012)	(0.012)	(0.012)	(0.012)
Separated from spouse	-0.306***	-0.306***	-0.255***	-0.246***
Separated Holli spouse	(0.017)	(0.017)	(0.018)	(0.018)
Victim of physical violence	-0.359***	-0.353***	-0.319***	-0.275***
victini oi physical violence	(0.029)	(0.029)	(0.030)	(0.032)
Interaction terms	(0.029)	(0.029)	(0.030)	(0.032)
Death of a close friend X Standardized LOC		0.025**	0.039***	0.033***
Death of a close mend ^ Standardized LOC		(0.010)	(0.011)	(0.012)
Death of close family members X Standardized LOC		0.015*	0.006	0.012)
Death of close failing members \( \sigma \) Standardized LOC				
M-i		(0.009)	(0.010) 0.050***	(0.011)
Major worsening in finances X Standardized LOC		0.027		0.035*
Einstein der under dem dem t. Y. Chandendier d. L. O.C.		(0.017)	(0.018)	(0.019)
Fired or made redundant X Standardized LOC		0.010	0.022	0.020
G :		(0.016)	(0.017)	(0.018)
Serious injury/illness to family members X Standardized LOC		0.012*	0.023***	0.018**
a		(0.007)	(0.009)	(0.009)
Serious personal injury/illness X Standardized LOC		0.027**	0.038***	0.033**
		(0.012)	(0.013)	(0.014)
Close family member detained in jail X Standardized LOC		0.069***	0.066**	0.062**
With the North Part of the Nor		(0.024)	(0.029)	(0.032)
Victim of a property crime X Standardized LOC		0.033***	0.019	0.015
V 0. 1 1. 11.00		(0.013)	(0.015)	(0.015)
Separated from spouse X Standardized LOC		0.007	0.026	0.018
W		(0.016)	(0.019)	(0.019)
Victim of physical violence X Standardized LOC		0.020	0.016	0.008
		(0.026)	(0.031)	(0.032)
Year dummies	Yes	Yes	Yes	Yes
Exogenous variables	Yes	Yes	Yes	Yes
Individual characteristics	No	No	Yes	Yes
Personality traits and their interactions with life events	No	No	Yes	Yes
Individual fixed effects	No	No	No	Yes
Observations	87,876	87,876	86,741	86,741
Number of unique individuals	12,046	12,046	12,046	12,046

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. RE = random effects model. FE = fixed effects model. Robust standard errors – clustered at the individual level – are reported. Mental health (SF-36) is standardized so that it has zero mean and a standard deviation of one. Exogenous variables include age, age-squared, and gender. Individual characteristics include log of real disposable personal income, dummies for current labor market status, marital status, highest completed education level, and homeownership status, self-assessed health, and total number of resident children.

Figures 2A & 2B: The estimated effects of different life events on life satisfaction and mental health for working-age respondents, regression-corrected

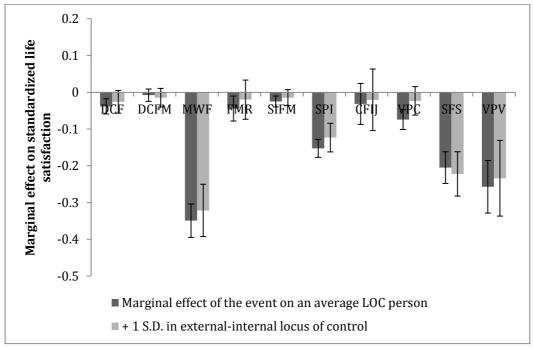


Fig.2A: Life satisfaction

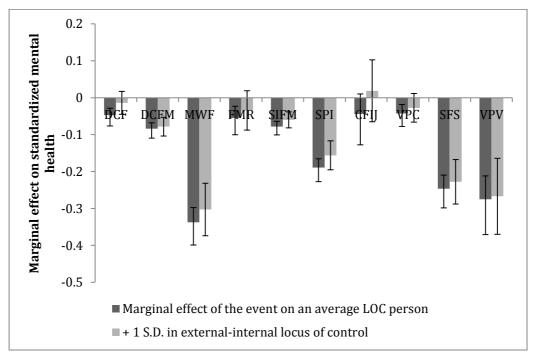
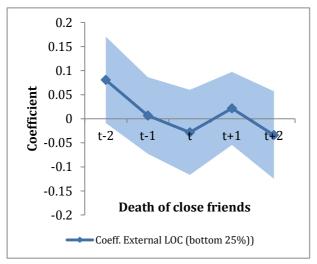


Fig.2B: Mental health

Note: 4-standard-error bands (95% C.I.) are reported: 2 above 2 below.

DCF = death of close friends, DCFM = death of close family members, including spouse and children, MWF = major worsening in finances, FMR = fired or made redundant, SFM = serious injury/illness to family members, SPI = serious personal injury/illness, CFIJ = close family member detained in jail, VPC = victim of a property crime, SFS = separated from spouse, VPV = victim of physical violence.

Fig 3A-3J: Leads and lags in life satisfaction to negative life events by locus of control type



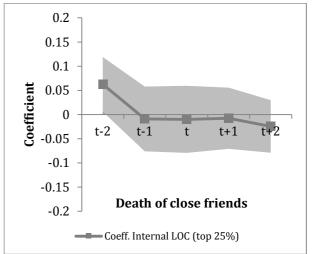
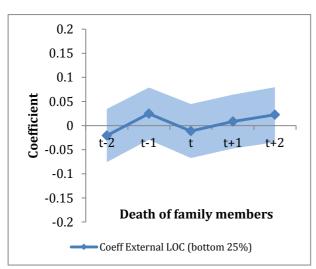


Fig 3A: Death of close friends



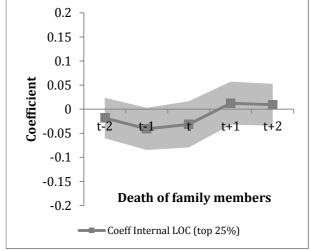
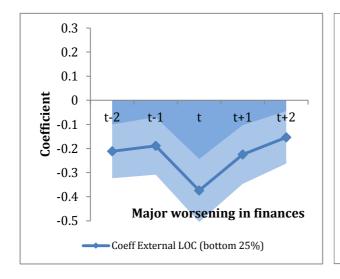


Fig 3B: Death of close family members, including spouse/child



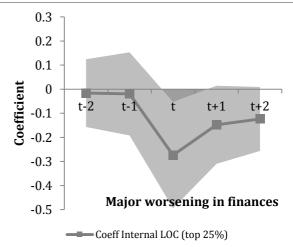
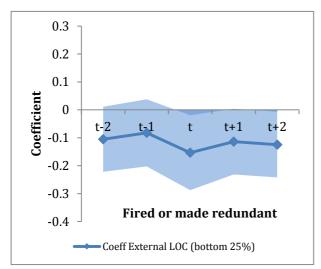


Fig 3C: Major worsening in finances



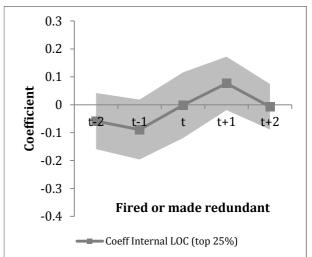
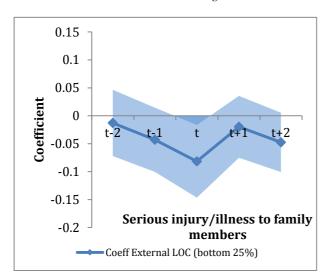


Fig 3D: Fired or made redundant



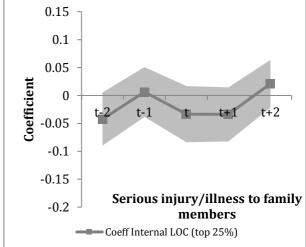
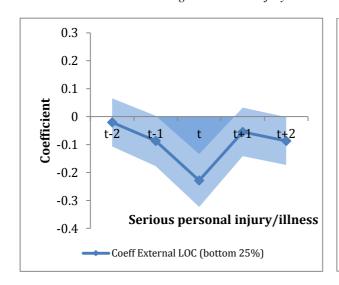


Fig 3E: Serious injury/illness to family members



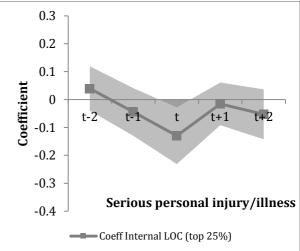
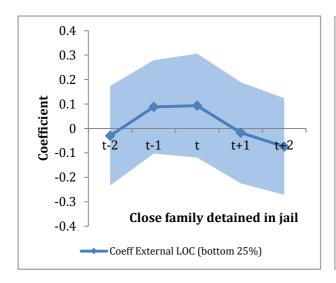


Fig 3F: Serious personal injury/illness



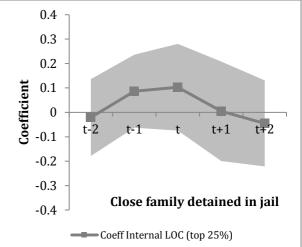
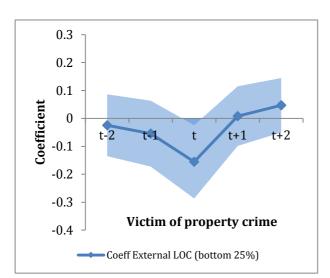


Fig 3G: Close family detained in jail



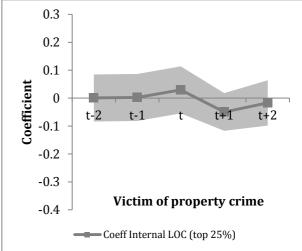
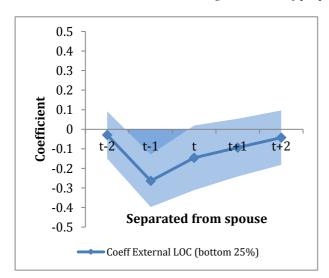


Fig 3H: Victim of property crime



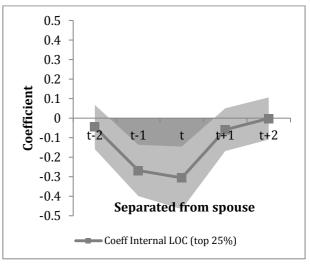
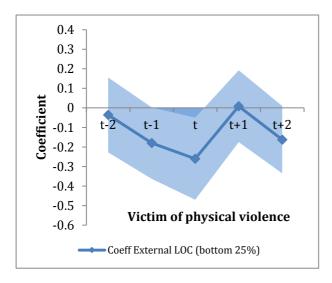


Fig 31: Separated from spouse



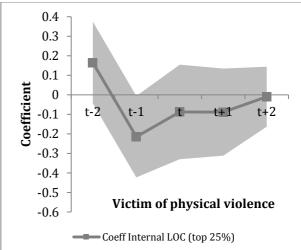
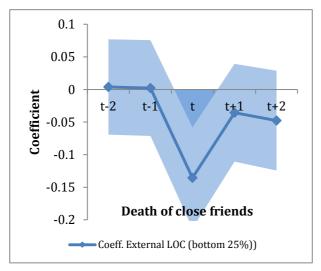


Fig 3J: Victim of physical violence

Note: 4-standard errors (two above, two below) or 95% confidence intervals are reported. External locus of control (bottom 25% of the External-Internal locus of control scale) and internal locus of control (top 25% of the External-Internal locus of control) are presented here. Each time (t) represents 0-12 months. The event in question took place at time t=0. Each value represents the lead and lag coefficients of the negative life event in question.

Fig 4A-4J: Leads and lags in mental health to negative life events by locus of control type



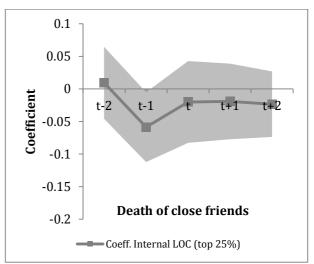
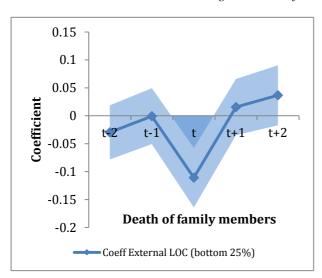


Fig 4A: Death of close friends



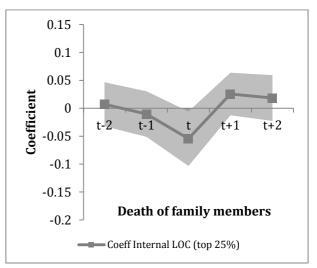
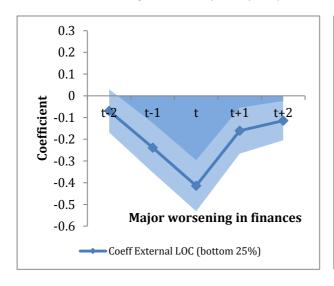


Fig 4B: Death of close family members, including spouse/child



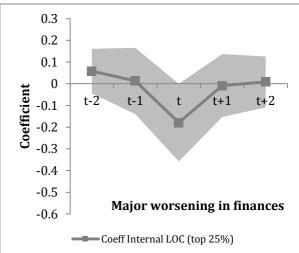
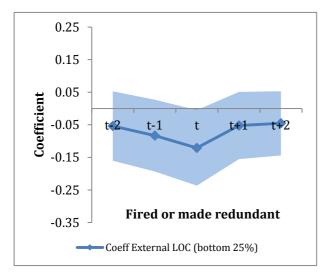


Fig 4C: Major worsening in finances



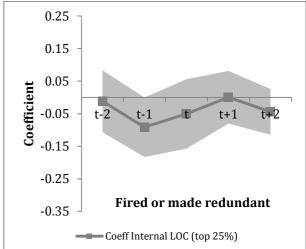
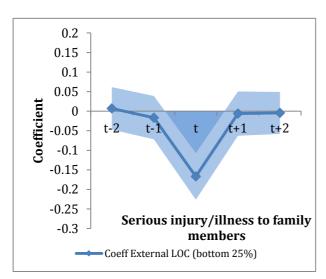


Fig 4D: Fired or made redundant



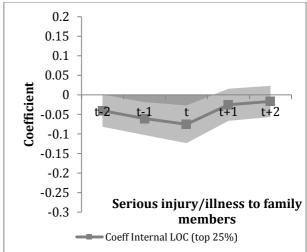
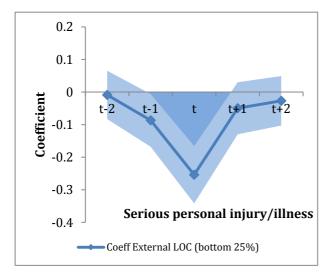


Fig 4E: Serious injury/illness to family members



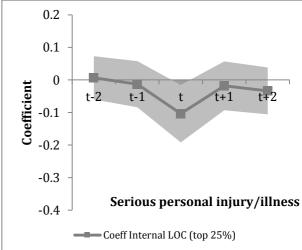
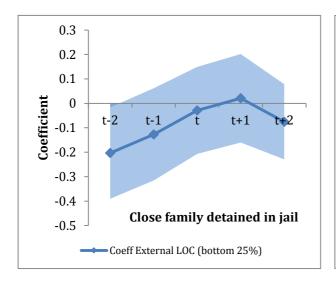


Fig 4F: Serious personal injury/illness



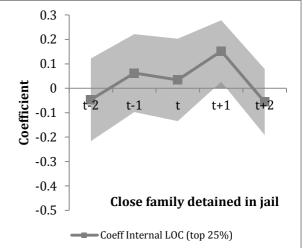
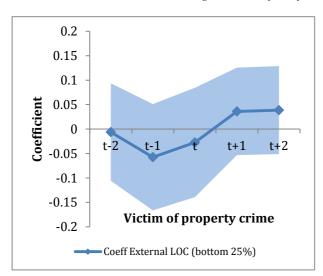


Fig 4G: Close family detained in jail



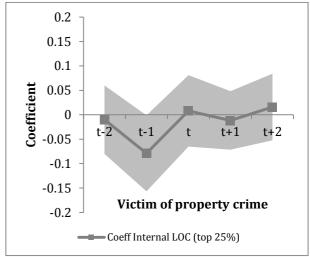
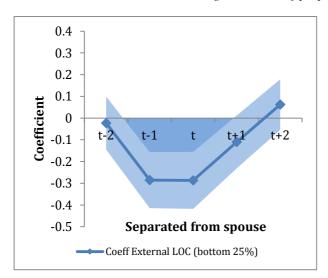


Fig 4H: Victim of property crime



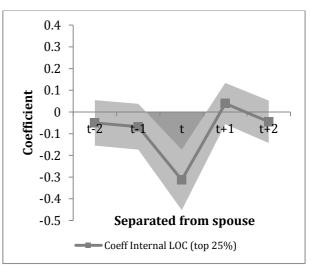
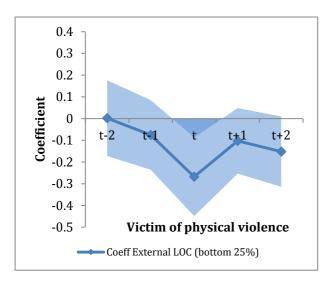


Fig 4I: Separated from spouse



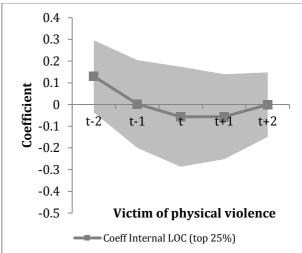


Fig 4J: Victim of physical violence

Note: 4-standard errors (two above, two below) or 95% confidence intervals are reported. External locus of control (bottom 25% of the External-Internal locus of control scale) and internal locus of control (top 25% of the External-Internal locus of control) are presented here. Each time (t) represents 0-12 months. The event in question took place at time t=0. Each value represents the lead and lag coefficients of the negative life event in question.

Table 4: Fixed effects life satisfaction and mental health regression equations by gender

	Life satisfaction		Mental heal	th
VARIABLES	Females	Males	Females	Males
Negative life events				
Death of a close friend	-0.038**	-0.035**	-0.064***	-0.046***
	(0.017)	(0.014)	(0.016)	(0.013)
Death of close family members	-0.022*	-0.006	-0.109***	-0.068***
	(0.012)	(0.012)	(0.012)	(0.012)
Major worsening in finances	-0.344***	-0.355***	-0.309***	-0.365***
	(0.033)	(0.034)	(0.029)	(0.031)
Fired or made redundant	-0.001	-0.061***	-0.089***	-0.045*
	(0.027)	(0.023)	(0.027)	(0.023)
Serious injury/illness to family members	-0.041***	-0.020*	-0.097***	-0.069***
	(0.011)	(0.011)	(0.011)	(0.011)
Serious personal injury/illness	-0.157***	-0.147***	-0.188***	-0.198***
	(0.020)	(0.017)	(0.018)	(0.018)
Close family member detained in jail	-0.053	-0.013	-0.069*	-0.088*
	(0.035)	(0.053)	(0.036)	(0.049)
Victim of a property crime	-0.059***	-0.079***	-0.051***	-0.031*
	(0.021)	(0.020)	(0.019)	(0.018)
Separated from spouse	-0.175***	-0.228***	-0.226***	-0.266***
	(0.034)	(0.028)	(0.028)	(0.026)
Victim of physical violence	-0.255***	-0.252***	-0.313***	-0.245***
	(0.055)	(0.051)	(0.046)	(0.053)
Interaction terms				
Death of a close friend × Standardized LOC	0.015	0.005	0.012	0.057***
	(0.017)	(0.018)	(0.016)	(0.018)
Death of close family members × Standardized LOC	-0.014	-0.000	-0.010	0.025
	(0.014)	(0.017)	(0.014)	(0.016)
Major worsening in finances × Standardized LOC	0.032	0.024	0.001	0.082***
	(0.030)	(0.034)	(0.026)	(0.028)
Fired or made redundant × Standardized LOC	0.076**	-0.019	0.023	0.012
	(0.031)	(0.030)	(0.024)	(0.025)
Serious injury/illness to family members × Standardized LOC	0.015	0.001	0.014	0.021
	(0.012)	(0.016)	(0.012)	(0.014)
Serious personal injury/illness × Standardized LOC	0.005	0.058***	0.022	0.047**
	(0.021)	(0.022)	(0.018)	(0.022)
Close family member detained in jail × Standardized LOC	-0.074*	0.151***	0.044	0.077
	(0.043)	(0.050)	(0.039)	(0.051)
Victim of a property crime × Standardized LOC	0.031	0.073***	0.015	0.014
	(0.024)	(0.026)	(0.022)	(0.020)
Separated from spouse × Standardized LOC	-0.043	0.014	0.004	0.029
-	(0.032)	(0.030)	(0.026)	(0.029)
Victim of physical violence × Standardized LOC	-0.004	0.066	-0.015	0.052
	(0.048)	(0.051)	(0.042)	(0.050)
Observations	46,460	40,545	46,333	40,408
Number of unique individuals	6,367	5,680	6,367	5,679

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. Life satisfaction and mental health (SF-36) is standardized so that it has zero mean and a standard deviation of one. Same control variables as in Column 4, Table 1.

Table 5: Locus of control and individual's willingness to take financial risks: random effects regressions by gender

	Financial risk you would be willing to take with your current spare cash? (FIRISK)		ng to take with rrent spare cash? financial risk you would be willing to ta		
VARIABLES	Females	Males	Females	Males	
External-Internal scale					
Standardized locus of control	0.070***	0.098***	0.051**	0.064*	
	(0.011)	(0.015)	(0.023)	(0.036)	
Negative life events					
Death of a close friend	-0.038**	-0.035**	-0.012	0.005	
	(0.017)	(0.014)	(0.052)	(0.074)	
Death of close family members	-0.022*	-0.006	-0.047	0.021	
-	(0.012)	(0.012)	(0.061)	(0.079)	
Major worsening in finances	-0.344***	-0.355***	0.012	-0.123	
	(0.033)	(0.034)	(0.075)	(0.108)	
Fired or made redundant	-0.001	-0.061***	0.120	0.068	
	(0.027)	(0.023)	(0.109)	(0.116)	
Serious injury/illness to family members	-0.041***	-0.020*	0.036	0.136*	
3 3	(0.011)	(0.011)	(0.047)	(0.070)	
Serious personal injury/illness	-0.157***	-0.147***	-0.005	-0.125	
and the first of t	(0.020)	(0.017)	(0.058)	(0.081)	
Close family member detained in jail	-0.053	-0.013	-0.009	-0.201	
a tan in gr	(0.035)	(0.053)	(0.106)	(0.222)	
Victim of a property crime	-0.059***	-0.079***	-0.095	-0.107	
,	(0.021)	(0.020)	(0.063)	(0.113)	
Separated from spouse	-0.175***	-0.228***	0.088	-0.196*	
	(0.034)	(0.028)	(0.098)	(0.115)	
Victim of physical violence	-0.255***	-0.252***	-0.011	0.459	
	(0.055)	(0.051)	(0.112)	(0.326)	
Year dummies	Yes	Yes	Yes	Yes	
Exogenous and Individual characteristics	Yes	Yes	Yes	Yes	
Personality traits and their interactions with life events	Yes	Yes	Yes	Yes	
Observations	24,452	22,261	2,664	1,710	
Number of unique individuals	4,888	4,397	1,332	915	

**Note**: \*<10%; \*\*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. There are two different variables on willingness to take financial risks: FIRISK and FIRISKA. FIRISK is derived from a self-completed question: "Which of the following statements comes closest to describing the amount of financial risk that you are willing to take with your spare cash? That is, cash used for savings or investment. 1= Not willing to take financial risks, ..., 5 = Takes substantial risks expecting substantial returns.", whereas FIRISKA is derived from a similar self-completed question: "Assume you had some spare cash that can be used for savings or investment. Which of the following statements comes closest to describing the amount of financial risks that you would be willing to take with this money? 1= Not willing to take financial risks, ..., 5 = Takes substantial risks expecting substantial returns." There are 10 waves of FIRISK (Waves 1-4, 6, 8, 10-13), and 6 waves of FIRISKA (Waves 6, 8, 10-13). Both variables are then standardized to have a mean of 0 and a standard deviation of 1.

Table 6: Locus of control and individual's social support/relationships: females sub-sample

	How often get together socially with friends/relatives not living with you? (LSSOCAL)		Asked for financial hel from friends or family (FIPRBFH)	
VARIABLES	RE	FE	RE	FE
External-Internal scale				
Standardized locus of control	0.133***		-0.070***	
	(0.011)		(0.009)	
Negative life events				
Death of a close friend	0.075***	0.072***	0.066***	0.028
	(0.017)	(0.017)	(0.019)	(0.019)
Death of close family members	0.001	0.003	0.046***	0.029*
	(0.013)	(0.013)	(0.015)	(0.015)
Major worsening in finances	-0.045	-0.032	0.490***	0.393***
	(0.028)	(0.030)	(0.041)	(0.043)
Fired or made redundant	-0.015	-0.008	0.110***	0.083**
	(0.026)	(0.027)	(0.033)	(0.034)
Serious injury/illness to family members	-0.006	-0.008	0.081***	0.050***
	(0.011)	(0.012)	(0.013)	(0.013)
Serious personal injury/illness	0.014	0.029	0.074***	0.041*
	(0.019)	(0.019)	(0.021)	(0.022)
Close family member detained in jail	-0.009	0.016	0.184***	0.133**
	(0.042)	(0.045)	(0.053)	(0.056)
Victim of a property crime	0.008	0.004	0.064**	0.035
	(0.020)	(0.021)	(0.025)	(0.026)
Separated from spouse	0.004	0.008	0.135***	0.098***
	(0.025)	(0.026)	(0.033)	(0.035)
Victim of physical violence	-0.106**	-0.053	0.179***	0.058
	(0.050)	(0.052)	(0.055)	(0.057)
Interaction terms				
Death of a close friend X Standardized LOC	-0.021	-0.016	-0.010	-0.004
	(0.017)	(0.018)	(0.019)	(0.020)
Death of close family members X Standardized LOC	-0.014	-0.011	0.004	0.010
	(0.014)	(0.015)	(0.015)	(0.016)
Major worsening in finances X Standardized LOC	0.062**	0.040	0.045	0.060
	(0.025)	(0.026)	(0.034)	(0.037)
Fired or made redundant X Standardized LOC	0.006	-0.004	0.066**	0.061*
	(0.024)	(0.025)	(0.029)	(0.032)
Serious injury/illness to family members X Standardized LOC	-0.003	-0.003	0.012	0.020
	(0.012)	(0.013)	(0.013)	(0.014)
Serious personal injury/illness X Standardized LOC	0.031*	0.027	0.012	0.026
	(0.018)	(0.018)	(0.021)	(0.022)
Close family member detained in jail X Standardized LOC	-0.018	-0.015	0.101**	0.094*
	(0.049)	(0.054)	(0.050)	(0.054)
Victim of a property crime X Standardized LOC	-0.012	-0.023	0.057**	0.075***
	(0.021)	(0.021)	(0.027)	(0.029)
Separated from spouse X Standardized LOC	-0.013	-0.015	-0.007	-0.024

	(0.023)	(0.024)	(0.035)	(0.038)
Victim of physical violence X Standardized LOC	-0.024	-0.023	0.020	-0.032
	(0.039)	(0.041)	(0.048)	(0.051)
Observations	41,830	41,830	40,660	40,660
Number of unique individuals	6,367	6,367	6,285	6,285

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. RE = random effects model; FE = fixed effects model. The responses to the LSSOCAL question range from "1. Less often than once every 3 months" to "7. Everyday". The FIPRBFH is also a dichotomy variable that takes a value of 1 if the respondent has asked for financial help from friends or family and 0 otherwise. The LSSOCAL question appeared in every wave in HILDA. The FIPRBFH also appeared in every wave in HILDA except for Wave 10. Both dependent variables are standardized to have a mean of 0 and a standard deviation of 1. Other control variables are as in Table 4.

<u>Table 7: Locus of control and individual's social support/relationships: males sub-sample</u>

	How often get together socially with friends/relatives not living with you?	
VARIABLES	RE	FE
External-Internal scale		
Standardized locus of control	0.116***	
	(0.011)	
Negative life events		
Death of a close friend	0.063***	0.051***
	(0.016)	(0.017)
Death of close family members	-0.006	-0.004
	(0.014)	(0.015)
Major worsening in finances	-0.039	-0.022
	(0.033)	(0.035)
Fired or made redundant	0.008	0.019
	(0.025)	(0.026)
Serious injury/illness to family members	0.016	0.011
	(0.013)	(0.013)
Serious personal injury/illness	-0.014	-0.015
	(0.019)	(0.019)
Close family member detained in jail	0.017	-0.005
	(0.056)	(0.058)
Victim of a property crime	0.005	0.001
	(0.021)	(0.021)
Separated from spouse	0.007	0.012
	(0.028)	(0.029)
Victim of physical violence	0.003	0.011
	(0.045)	(0.046)
Interaction terms		
Death of a close friend X Standardized LOC	0.031	0.022
	(0.020)	(0.021)
Death of close family members X Standardized LOC	0.013	0.012
	(0.017)	(0.018)
Major worsening in finances X Standardized LOC	-0.010	-0.018
	(0.030)	(0.031)
Fired or made redundant X Standardized LOC	-0.021	-0.025
	(0.026)	(0.027)
Serious injury/illness to family members X Standardized LOC	0.006	0.008
	(0.014)	(0.015)
Serious personal injury/illness X Standardized LOC	0.018	0.008
	(0.020)	(0.020)
Close family member detained in jail X Standardized LOC	0.027	0.023
	(0.055)	(0.058)
Victim of a property crime X Standardized LOC	-0.028	-0.030
	(0.023)	(0.024)
Separated from spouse X Standardized LOC	-0.044	-0.058*

	(0.028)	(0.030)	
Victim of physical violence X Standardized LOC	0.007	-0.009	
	(0.041)	(0.043)	
Observations	36,444	36,444	
Number of unique individuals	5,678	5,678	

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. RE = random effects model; FE = fixed effects model. The responses to the LSSOCAL question range from "1. Less often than once every 3 months" to "7. Everyday". The FIPRBFH is also a dichotomy variable that takes a value of 1 if the respondent has asked for financial help from friends or family and 0 otherwise. The LSSOCAL question appeared in every wave in HILDA. The FIPRBFH also appeared in every wave in HILDA except for Wave 10. Both dependent variables are standardized to have a mean of 0 and a standard deviation of 1. Other control variables are as in Table 4.

<u>Table 8: Fixed effects life satisfaction and mental health regression equations</u> with locus of control and positive life events as independent variables

	Life satisfact	ion	Mental heal	lth
VARIABLES	Females	Males	Females	Males
Positive life events				
Major improvement in finances	0.121***	0.094***	0.029	0.005
	(0.020)	(0.020)	(0.020)	(0.020)
Promoted at work	0.031**	0.026**	0.035**	0.052***
	(0.014)	(0.013)	(0.015)	(0.014)
Interaction terms				
Major improvement in finances X Standardized LOC	-0.043**	-0.009	-0.010	0.020
	(0.021)	(0.023)	(0.021)	(0.023)
Promoted at work X Standardized LOC	-0.005	-0.013	-0.006	-0.031**
	(0.016)	(0.015)	(0.017)	(0.016)
Observations	46,460	40,545	46,333	40,408
Number of unique individuals	6,367	5,680	6,367	5,679

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. Each positive life event is entered separately in the regression. Other controls are as in Table 4.

## Online appendix

Table 1A: Determinants of locus of control (Waves 3, 4, 9 & 11)

VARIABLES	Working age (21<=age<=59)
Negative life events Death of a close friend	0.004
Death of close family members	(0.021) -0.014
Major worsening in finances	(0.017) -0.363***
Fired or made redundant	(0.038) -0.033
Serious injury/illness to family members	(0.033) -0.036**
Serious personal injury/illness	(0.015) -0.061***
Close family member detained in jail	(0.022) -0.060
	(0.056) -0.065***
Victim of a property crime	(0.023)
Separated from spouse	-0.088*** (0.034)
Victim of physical violence	-0.182*** (0.059)
Age	-0.004 (0.010)
Age-squared	0.006 (0.011)
Ln(real personal income)	0.040*** (0.011)
Current employment status Employed: Part-time	0.026
Unemployed: Looking for full-time work	(0.018) -0.023
	(0.053)
Unemployed: looking for part-time work	0.029 (0.071)
Not in the labour force, marginally attached	0.006 (0.033)
Not in the labour force, not marginally attached	0.017 (0.029)
Employed, but usual work hours are unstable	-0.045 (0.399)
Current marital status De facto	-0.043*
Separated	(0.026) -0.137***
Divorced	(0.049) -0.065
Widowed	(0.049) -0.139
	(0.127)
Never married and not de facto	-0.031 (0.036)
Current long-term health status Long-term health impairment: Yes = 1	-0.104***
Highest education level completed	(0.019)
Graduate diploma/certificate	0.051 (0.065)
Bachelor honours	-0.013 (0.059)
Advanced diploma, diploma	0.062

	(0.087)
Cert III or IV	-0.005
	(0.084)
Year 12	-0.101
	(0.080)
Year 11 and below	-0.029
	(0.095)
Current number of children	,
Non-resident children aged 0-4	-0.027
č	(0.068)
Non-resident children aged 2-5	0.000
č	(0.029)
Non-resident children aged 6-14	-0.044
č	(0.031)
Non-resident children aged 15-24	0.008
· ·	(0.024)
Resident children aged 0-4	-0.025*
	(0.015)
Resident children aged 2-5	-0.043
	(0.050)
Resident children aged 6-14	-0.046***
	(0.017)
Resident children aged 15-24	-0.034
	(0.022)
Current homeownership status	
Rent or pay board	0.008
	(0.020)
Involved in a rent-buy scheme	-0.117
	(0.147)
Live here rent free/free tenure	0.021
	(0.044)
Year dummies	Yes
Personality traits and their interactions with life events	Yes
Individual fixed effects	Yes
Observations	29,242
Within R-squared	12,047
Number of unique individuals	0.030

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. Locus of control is standardized to have zero mean and a standard deviation of one. The continuum scale runs from extremely external to extremely internal. This sample is denoted as 'Sample 1' in Section 4. The excluded reference groups are: employed full-time, married, postgraduate degree, and own home/paying mortgage.

Table 2A: Fixed effects estimates on the control variables

Age	Age         -0.013**         0.006           Age-squared         (0.006)         (0.006)           Ln(real personal income)         0.005         0.005           Current employment status         (0.006)         0.005           Employed: Part-time         0.019**         -0.013           Unemployed: Looking for full-time work         -0.183****         -0.128****           Unemployed: looking for part-time work         (0.010)         (0.023)           Unemployed: looking for part-time work         (0.018)         (0.023)           Not in the labour force, marginally attached         -0.075****         -0.088***           Not in the labour force, not marginally attached         (0.021)         (0.018)           Not in the labour force, not marginally attached         (0.018)         (0.017)           Employed, but usual work hours are unstable         0.018*         (0.017)           Employed, but usual work hours are unstable         0.055***         0.017           Employed, but usual work hours are unstable         0.055***         0.017           Employed, but usual work hours are unstable         0.055***         0.017           Employed, but usual work hours are unstable         0.055***         0.017           Employed         0.040***         0.017** <tr< th=""><th>VARIABLES</th><th>Life satisfaction</th><th>Mental health</th></tr<>	VARIABLES	Life satisfaction	Mental health
Age-squared (0.007) (0.006) (0.007) (0.006) (0.005)  Ln(real personal income) (0.006) (0.005)  Current employment status  Employed: Part-time (0.019) (0.010) (0.010)  Unemployed: Looking for full-time work (0.028) (0.023) (0.023)  Unemployed: looking for part-time work (0.028) (0.023) (0.023)  Unemployed: looking for part-time work (0.028) (0.023) (0.023) (0.035)  Not in the labour force, marginally attached (0.028) (0.036) (0.036) (0.036) (0.036) (0.016) (0.010) (0.010)  Employed, but usual work hours are unstable (0.018) (0.017) (0.175) (0.137)  Employed, but usual work hours are unstable (0.018) (0.017) (0.175) (0.137)  Current marital status  De facto (0.05) (0.05) (0.077) (0.017) (0.018) (0.017) (0.018) (0.017) (0.018) (0.017) (0.018) (0.017) (0.018) (0.027)	Age-squared 0.016** 0.000	Age	-0.013**	
(0.007) (0.006)	(0.007) (0.006)		(0.006)	(0.006)
Ln(real personal income)	Ln(real personal income)	Age-squared	0.016**	0.000
Current employment status  Employed: Part-time  (0.006)  (0.005)  Current employed: Looking for full-time work  Unemployed: Looking for part-time work  (0.028)  (0.023)  Unemployed: looking for part-time work  (0.038)  (0.036)  Not in the labour force, marginally attached  (0.021)  (0.018)  Not in the labour force, not marginally attached  (0.021)  (0.018)  Not in the labour force, not marginally attached  (0.021)  (0.018)  (0.017)  Employed, but usual work hours are unstable  (0.018)  Current marital status  De facto  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.016)  Separated  (0.032)  (0.027)  Widowed  (0.032)  (0.021)  Widowed  (0.033)  (0.027)  Widowed  (0.033)  (0.027)  Widowed  (0.034)  (0.035)  (0.035)  (0.021)  Widowed  (0.036)  (0.037)  Widowed  (0.038)  (0.041)  Widowed  (0.038)  (0.041)  Widowed  (0.038)  (0.021)  Widowed  (0.038)  (0.021)  Widowed  (0.038)  (0.021)  Widowed  (0.038)  (0.036)  (0.022)  Widowed  (0.038)  (0.036)  (0.037)  Widowed  (0.038)  (0.021)  Widowed  (0.038)  (0.021)  Widowed  (0.038)  (0.021)  Widowed  (0.039)  (0.021)  Widowed  (0.030)  (0.021)	Current employment status  Employed: Part-time		(0.007)	(0.006)
Current employment status	Current employment status	Ln(real personal income)	0.005	0.002
Employed: Part-time         0.019* (0.010) (0.010)           Unemployed: Looking for full-time work         -0.183*** (0.028)           Unemployed: looking for part-time work         0.019 (0.038)           Unemployed: looking for part-time work         0.019 (0.038)           Not in the labour force, marginally attached         -0.075**** (0.098****           Not in the labour force, not marginally attached         -0.022 (0.116****           Employed, but usual work hours are unstable         -0.178 (0.178)           Employed, but usual work hours are unstable         -0.05****           Current marital status         0.055****           De facto         (0.015)           Good (0.015)         (0.015)           Separated         -0.05****           Divorced         -0.03***           Divorced         -0.02****           Widowed         -0.27****           Very married and not de facto         -0.126****           Current long-term health status         -0.085***           Long-term health status         -0.022***           Long-term health impairment: Yes = 1         -0.126****           Graduate diploma/certificate         -0.02           Graduate diploma/certificate         -0.03***           Advanced diploma, diploma         -0.05*** <t< td=""><td>Employed: Part-time         0.019*         -0.013           Unemployed: Looking for full-time work         -0.183***         -0.128***           Unemployed: looking for part-time work         0.019         -0.087**           Unemployed: looking for part-time work         0.019         -0.087**           Not in the labour force, marginally attached         -0.075***         -0.098***           Not in the labour force, not marginally attached         -0.022         -0.110***           Employed, but usual work hours are unstable         -0.178         -0.110           Employed, but usual work hours are unstable         -0.178         -0.110           Employed, but usual work hours are unstable         -0.178         -0.110           Current marital status         -0.178         -0.110           Defacto         (0.015)         (0.015)           Guotis         (0.015)         (0.015)           Separated         -0.387***         -0.23****           Divorced         -0.202***         -0.051*           Widowed         -0.27***         -0.23****           Never married and not de facto         (0.027)         (0.027)           Current long-term health status         (0.02**)         (0.021)           Long-term health impairment: Yes = 1         -0.124***</td><td></td><td>(0.006)</td><td>(0.005)</td></t<>	Employed: Part-time         0.019*         -0.013           Unemployed: Looking for full-time work         -0.183***         -0.128***           Unemployed: looking for part-time work         0.019         -0.087**           Unemployed: looking for part-time work         0.019         -0.087**           Not in the labour force, marginally attached         -0.075***         -0.098***           Not in the labour force, not marginally attached         -0.022         -0.110***           Employed, but usual work hours are unstable         -0.178         -0.110           Employed, but usual work hours are unstable         -0.178         -0.110           Employed, but usual work hours are unstable         -0.178         -0.110           Current marital status         -0.178         -0.110           Defacto         (0.015)         (0.015)           Guotis         (0.015)         (0.015)           Separated         -0.387***         -0.23****           Divorced         -0.202***         -0.051*           Widowed         -0.27***         -0.23****           Never married and not de facto         (0.027)         (0.027)           Current long-term health status         (0.02**)         (0.021)           Long-term health impairment: Yes = 1         -0.124***		(0.006)	(0.005)
Unemployed: Looking for full-time work	(0.010   (0.010)   (0.010)   (0.010)   (0.010)   (0.028)   (0.023)   (0.021)   (0.018)   (0.021)   (0.018)   (0.021)   (0.018)   (0.021)   (0.018)   (0.021)   (0.018)   (0.021)   (0.018)   (0.017)   (0.018)   (0.017)   (0.018)   (0.017)   (0.018)   (0.021)   (0.02			
Unemployed: Looking for full-time work	Unemployed: Looking for full-time work	Employed: Part-time		
Unemployed: looking for part-time work	Unemployed: looking for part-time work		` ,	
Unemployed: looking for part-time work	Unemployed: looking for part-time work	Unemployed: Looking for full-time work		****
(0.038)	Not in the labour force, marginally attached		` ,	
Not in the labour force, marginally attached	Not in the labour force, marginally attached (0.021) (0.018) Not in the labour force, not marginally attached (0.021) (0.018) Not in the labour force, not marginally attached (0.021) (0.018) (0.017) Employed, but usual work hours are unstable (0.178 -0.110 (0.175) (0.137)  Current marital status  De facto (0.015) (0.015) (0.015) Separated (0.030) (0.027) Divorced (0.030) (0.027) Divorced (0.030) (0.027) Widowed (0.032) (0.027) Widowed (0.032) (0.027) Weer married and not de facto (0.085) (0.085) (0.089) Never married and not de facto (0.022) (0.021)  Current long-term health status Long-term health impairment: Yes = 1 (0.012 -0.053*** (0.010) (0.010)  Highest education level completed Graduate diploma/certificate (0.038) (0.041) Bachelor honours (0.034) (0.037) Advanced diploma, diploma (0.041) Advanced diploma, diploma (0.041) Year 12 (0.043) (0.037) Year 11 and below (0.043) (0.045) Year 12 (0.041) (0.048) Year 12 (0.041) (0.049) (0.053) Year 11 and below (0.058) (0.058) Current number of children Won-resident children aged 0-4 (0.044) (0.045) Year 11 and below (0.058) (0.058) Current number of children Non-resident children aged 6-14 (0.002) (0.018) Non-resident children aged 15-24 (0.012) (0.018) Resident children aged 0-4 (0.009) (0.009) Resident children aged 2-5 (0.009) Resident children aged 2-5 (0.009) Resident children aged 2-5 (0.009) (0.009)	Unemployed: looking for part-time work		
Not in the labour force, not marginally attached  (0.021) (0.018) (0.017) Employed, but usual work hours are unstable  Current marital status De facto  (0.015) (0.015) (0.015) Separated  (0.015) (0.015) (0.015) Separated  (0.030) (0.027) Divorced  (0.030) (0.027) Divorced  (0.030) (0.027) Widowed  (0.032) (0.027) Widowed  (0.035) (0.089) Never married and not de facto  (0.022) (0.021)  Current long-term health status  Long-term health status  Long-term health impairment: Yes = 1 (0.010) (0.010)  Highest education level completed Graduate diploma/certificate  (0.038) (0.041) Bachelor honours  (0.038) (0.041) Advanced diploma, diploma  (0.049) (0.037) Advanced diploma, diploma  (0.049) (0.033) Cert III or IV  (0.000) -0.084* (0.047) (0.048) Year 12  (0.043) (0.047) Year 11 and below  Current number of children  Non-resident children aged 0-4  (0.044) (0.058)  Current number of children  Non-resident children aged 0-4  (0.044) (0.034) Non-resident children aged 0-4  (0.044) (0.034) Non-resident children aged 0-4  (0.005) Non-resident children aged 0-4  (0.007) Resident children aged 0-4  (0.009) (0.009) Resident children aged 0-4  (0.009) (0.009) Resident children aged 0-14  (0.009) (0.009) Resident children aged 0-14  (0.000) (0.003)  (0.022) Resident children aged 6-14  (0.004) (0.003)  (0.023) Resident children aged 6-14  (0.004) (0.003)  (0.002) Resident children aged 6-14  (0.004) (0.003)	Not in the labour force, not marginally attached	N		
Not in the labour force, not marginally attached (0.018) (0.017) (0.018) (0.017) (0.017) (0.017) (0.017) (0.175) (0.137) (0.137) (0.017) (0.015) (0.01	Not in the labour force, not marginally attached	Not in the labour force, marginally attached		
Course   C	Current marital status   Cu   Cu   Cu   Current marital status   Cu   Cu   Current marital status   Cu   Cu   Cu   Cu   Cu   Cu   Cu	Notice the label of Comment of the state of the state of		
Employed, but usual work hours are unstable         -0.178 (0.175) (0.137)           Current marital status         0.055*** 0.017           De facto         (0.015) (0.015)           Separated         -0.387*** -0.253*** (0.030) (0.027)           Divorced         -0.020*** -0.051* (0.032) (0.027)           Widowed         -0.273*** -0.238*** (0.088) (0.088)           Never married and not de facto         -0.126*** -0.053*** (0.022) (0.021)           Current long-term health status         -0.124*** -0.153**** (0.010) (0.010)           Long-term health impairment: Yes = 1         -0.124*** -0.153**** (0.038) (0.041)           Bachelor honours         -0.012 -0.065 (0.038) (0.041)           Bachelor honours         -0.075** -0.056 (0.038) (0.041)           Advanced diploma, diploma         -0.005 -0.117** (0.048) (0.037)           Cert III or IV         0.000 -0.084* (0.047) (0.048) (0.047) (0.048) (0.047) (0.048) (0.047) (0.048) (0.047) (0.048) (0.047) (0.048) (0.059) (0.056)           Year 12         -0.061 -0.070 (0.048) (0.059) (0.056) (0.056) (0.058) (0.056)	Employed, but usual work hours are unstable	Not in the labour force, not marginally attached		
Current marital status De facto  Current marital status De facto  Current (0.015)  Separated  Current (0.038)  Separated  Current (0.038)  Current (0.039)  Divorced  Current (0.032)  Widowed  Current (0.032)  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Current long-term health status  Current long-term health status  Current III or IV  Current III or IV  Current long-term health status  Current number of children  Non-resident children aged 0-4  Current number of children  Non-resident children aged 2-5  Current number aged 6-14  Cuogay  Non-resident children aged 15-24  Cuogay  Resident children aged 6-14  Cuogay  Resident children aged 6-14  Cuoday  Cuogay  Cu	Current marital status De facto	Frontessed but would made become one constable		· /
Current marital status           De facto         0.055***         0.017           (0.015)         (0.015)         (0.015)           Separated         -0.387***         -0.253***           (0.030)         (0.027)           Divorced         -0.202***         -0.051*           (0.032)         (0.027)           Widowed         -0.273***         -0.238***           (0.085)         (0.089)           Never married and not de facto         -0.126***         -0.053**           Current long-term health status         -0.022**         (0.021)           Long-term health impairment: Yes = 1         -0.124***         -0.153***           Corrent long-term health impairment: Yes = 1         -0.124***         -0.153***           Graduate diploma/certificate         -0.012         -0.065           Graduate diploma/certificate         -0.012         -0.05           Bachelor honours         -0.075***         -0.054           Advanced diploma, diploma         -0.005**         -0.117**           Advanced diploma, diploma         (0.034)         (0.034)           Cert III or IV         0.00         -0.084**           Year 12         -0.061         -0.061           Year 11 and be	Current marital status           De facto         0.055***         0.017           (0.015)         (0.015)         (0.015)           Separated         -0.387***         -0.253***           (0.030)         (0.027)         (0.027)           Divorced         -0.202***         -0.051*           (0.032)         (0.027)         (0.027)           Widowed         -0.273***         -0.038***           (0.085)         (0.089)         (0.089)           Never married and not de facto         (0.022)         (0.021)           Current long-term health status         (0.022)         (0.021)           Long-term health impairment: Yes = 1         (0.012***         -0.153***           Long-term health impairment: Yes = 1         (0.010)         (0.010)           Highest education level completed         (0.010)         (0.010)           Graduate diploma/certificate         (0.012***         -0.056*           Graduate diploma/certificate         (0.038)         (0.041)           Bachelor honours         -0.012         -0.056*           Bachelor honours         -0.075**         -0.056           Advanced diploma, diploma         -0.005         -0.117**           Year 12         0.061 </td <td>Employed, but usual work nours are unstable</td> <td></td> <td></td>	Employed, but usual work nours are unstable		
De facto 0.055*** 0.017 (0.015) (0.015) (0.015) (0.015) (0.015) (0.015) (0.015) (0.015) (0.015) (0.015) (0.030) (0.027) (0.030) (0.027) (0.030) (0.027) (0.030) (0.027) (0.030) (0.027) (0.030) (0.027) (0.031) (0.027) (0.032) (0.027) (0.032) (0.027) (0.089) (0.085) (0.089) (0.085) (0.089) (0.085) (0.089) (0.085) (0.089) (0.027) (0.021) (0.021) (0.022) (0.021) (0.021) (0.022) (0.022) (0.023) (0.022) (0.018) (0.044) (0.034) (0.034) (0.045) (0.058) (0.056	De facto 0.055*** 0.017 (0.015) (0.015) Separated -0.387*** -0.253*** (0.030) (0.027) Divorced -0.202*** -0.051* (0.032) (0.027) Widowed -0.273*** -0.238*** (0.085) (0.089) Never married and not de facto (0.085) (0.089) Never married and not de facto (0.022) (0.021)  Current long-term health status Long-term health impairment: Yes = 1 (0.012) (0.010) (0.010)  Highest education level completed Graduate diploma/certificate (0.038) (0.041) Bachelor honours -0.012 -0.065 (0.038) (0.041) Bachelor honours -0.075** -0.056 (0.038) (0.041) Advanced diploma, diploma (0.034) (0.037) Cert III or IV 0.000 -0.084* (0.049) (0.053) Cert III or IV 0.000 -0.084* (0.049) (0.053) Year 12 -0.061 -0.070 (0.048) Year 12 -0.061 -0.070 (0.048) Year 11 and below 0.059 -0.108* (0.043) (0.045) Year 11 and below -0.059 -0.108* (0.043) (0.045) Year 11 and below -0.059 -0.108* (0.058) (0.056)  Current number of children Non-resident children aged 0-4 -0.140*** -0.080** (0.004) (0.034) (0.034) (0.035) (0.015) (0.0	Current marital status	(0.175)	(0.137)
Separated	Separated		O 055***	0.017
Separated       -0.387***       -0.253***         (0.030)       (0.027)         Widowed       -0.202***       -0.051*         (0.085)       (0.085)       (0.089)         Never married and not de facto       -0.126***       -0.053**         (0.022)       (0.021)         Current long-term health status         Long-term health impairment: Yes = 1       -0.124***       -0.153***         Long-term health impairment: Yes = 1       -0.124***       -0.065         Graduate diploma/certificate       (0.010)       (0.010)         Graduate diploma/certificate       (0.038)       (0.041)         Bachelor honours       -0.012       -0.065         Gaduate diploma, diploma       -0.075**       -0.056         Advanced diploma, diploma       -0.005       -0.117**         Advanced diploma, diploma       -0.005       -0.117**         Cert III or IV       0.000       -0.084*         Year 12       -0.061       -0.070         Year 11 and below       0.059       -0.108*         Current number of children       -0.061       -0.070         Non-resident children aged 0-4       -0.140****       -0.080**         Non-resident children aged 6-14       -0.009***<	Separated       -0.387***       -0.253***         (0.030)       (0.027)         Divorced       -2.02***       -0.051*         (0.032)       (0.027)         Widowed       -0.273***       -0.238***         Never married and not de facto       -0.126***       -0.053**         Never married and not de facto       -0.126***       -0.053**         Current long-term health status       -0.022       (0.021)         Long-term health impairment: Yes = 1       -0.124***       -0.153***         Conjusted diploma/certificate       -0.012       -0.065         Graduate diploma/certificate       -0.012       -0.065         Graduate diploma/certificate       -0.075**       -0.056         (0.038)       (0.041)         Bachelor honours       -0.075**       -0.056         (0.034)       (0.034)       (0.037)         Advanced diploma, diploma       -0.005       -0.117**         Advanced diploma, diploma       -0.005       -0.117**         Year 11 or IV       0.000       -0.084*         Year 12       -0.061       -0.070         Year 11 and below       0.059       -0.108*         Current number of children       -0.05*       -0.010*	De lacto		
Divorced (0.030) (0.027) Divorced (-0.02*** -0.051*) (0.032) (0.027) Widowed (-0.273*** -0.238*** (0.085) (0.089) Never married and not de facto (0.022) (0.021)  Current long-term health status Long-term health impairment: Yes = 1 (0.010) (0.010)  Highest education level completed Graduate diploma/certificate (0.038) (0.041) Bachelor honours (0.038) (0.041) Bachelor honours (0.038) (0.041) Bachelor honours (0.034) (0.037) Advanced diploma, diploma (0.034) (0.037) Cert III or IV (0.049) (0.053) Cert III or IV (0.049) (0.053) Year 12 (0.047) (0.048) Year 12 (0.047) (0.048) Year 12 (0.047) (0.048) Year 11 and below (0.058) (0.056)  Current number of children Non-resident children aged 0-4 (0.048) (0.058) (0.056)  Current of children aged 0-4 (0.044) (0.034) Non-resident children aged 6-14 (0.044) (0.034) Non-resident children aged 15-24 (0.016) (0.015) (0.015) (0.015) Non-resident children aged 0-4 (0.022) (0.018) Resident children aged 0-4 (0.009) (0.009) Resident children aged 2-5 (0.002) Resident children aged 6-14 (0.009) (0.009)	Divorced	Sanaratad	` ,	
Divorced	Divorced   -0.202***   -0.051*   (0.032)   (0.027)   (0.027)   (0.027)   (0.027)   (0.027)   (0.027)   (0.085)   (0.085)   (0.085)   (0.085)   (0.085)   (0.085)   (0.085)   (0.085)   (0.022)   (0.021)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.021)   (0.022)   (0.013)   (0.045)   (0.022)   (0.015)   (0.	Separateu		
Widowed       (0.032)       (0.027)         Never married and not de facto       (0.085)       (0.089)         Never married and not de facto       (0.022)       (0.021)         Current long-term health status         Long-term health impairment: Yes = 1       (0.010)       (0.010)         Highest education level completed         Graduate diploma/certificate       -0.012       -0.065         (0.038)       (0.041)         Bachelor honours       -0.075**       -0.056         Advanced diploma, diploma       -0.005       -0.117**         Advanced diploma, diploma       0.009       -0.084*         Cert III or IV       0.000       -0.084*         Year 12       -0.061       -0.070         Year 11 and below       0.059       -0.108*         Current number of children       0.059       -0.108*         Non-resident children aged 0-4       -0.140***       -0.080**         Non-resident children aged 6-14       -0.099***       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Non-resident children aged 15-24       -0.016       -0.016         Non-resident children aged 2-5       -0.009**       -0.022*         Non-reside	Widowed (0.032) (0.027) Widowed (-0.273*** -0.238***	Divorced		,
Widowed	Widowed       -0.273*** (0.085) (0.089)         Never married and not de facto       -0.126*** (0.082)         Current long-term health status       -0.124*** (0.012)         Long-term health impairment: Yes = 1       -0.124*** (0.010)         Graduate diploma/certificate       -0.012 (0.038)         Graduate diploma/certificate       -0.012 (0.034)         Bachelor honours       -0.075** (0.034)         Advanced diploma, diploma       -0.005 (0.034)         Cert III or IV       0.000 (0.047)         Cert III or IV       0.000 (0.047)         Year 12       -0.061 (0.043)         Year 11 and below       0.059 (0.058)         Year 11 and below       0.059 (0.058)         Current number of children       0.059 (0.058)         Current number of children aged 0-4       -0.140*** (0.044)         Non-resident children aged 2-5       -0.007 (0.015)         Non-resident children aged 6-14       -0.099*** (0.022)         Non-resident children aged 15-24       -0.016 (0.016)         Non-resident children aged 15-24       -0.016 (0.014)         Resident children aged 2-5       -0.007 (0.018)         Resident children aged 2-5       -0.016 (0.016)         (0.009) (0.009)       -0.0016         (0.009) (0.009)       -0.0016	Divolecu		
Never married and not de facto  Never married and not de facto  (0.085) (0.089)  -0.126*** -0.053** (0.022) (0.021)  Current long-term health status  Long-term health impairment: Yes = 1  -0.124*** -0.153*** (0.010) (0.010)  Highest education level completed  Graduate diploma/certificate  -0.012 -0.065 (0.038) (0.041)  Bachelor honours  -0.075** -0.056 (0.034) (0.037)  Advanced diploma, diploma -0.005 -0.117** (0.049) (0.053)  Cert III or IV -0.000 -0.084* (0.047) (0.048)  Year 12 -0.061 -0.070 (0.043) (0.045)  Year 11 and below -0.059 -0.108* (0.058) (0.056)  Current number of children  Non-resident children aged 0-4 -0.140*** -0.080** Non-resident children aged 6-14 -0.099*** -0.022 (0.022) (0.018)  Non-resident children aged 15-24 -0.016 -0.016 -0.009  Resident children aged 2-5 -0.009 (0.009)  Resident children aged 6-14 -0.022** 0.005 (0.009)  Resident children aged 6-14 -0.022** 0.005 (0.009)  Resident children aged 6-14 -0.009** -0.002** -0.009** -0.0039* (0.009)  Resident children aged 6-14 -0.004*** -0.004*** -0.004*** -0.034***	Never married and not de facto   (0.085)   (0.089)     Never married and not de facto   (0.022)   (0.021)     Current long-term health status     Long-term health impairment: Yes = 1   (0.010)   (0.010)     Highest education level completed     Graduate diploma/certificate   (0.038)   (0.041)     Bachelor honours   (0.038)   (0.041)     Bachelor honours   (0.034)   (0.037)     Advanced diploma, diploma   (0.049)   (0.053)     Cert III or IV   (0.049)   (0.053)     Year 12   (0.047)   (0.048)     Year 12   (0.047)   (0.048)     Year 11 and below   (0.059)   (0.059)     Year 11 and below   (0.059)   (0.059)     Year 11 and below   (0.059)   (0.058)     Current number of children     Non-resident children aged 0-4   (0.044)   (0.034)     Non-resident children aged 2-5   (0.015)   (0.015)     Non-resident children aged 6-14   (0.022)   (0.018)     Non-resident children aged 15-24   (0.014)   (0.013)     Resident children aged 2-5   (0.009)   (0.009)	Widowed		
Never married and not de facto  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Current long-term health status  Current long-term health status  Current number of children  Non-resident children aged 0-4  Current number of children aged 6-14  Current aged 0-4  Current long-term health status  Current long-term health status  Current long-term health status  Current number of children  Non-resident children aged 0-4  Current number of children aged 0-4  Current long-term long-	Never married and not de facto  Current long-term health status  Long-term health impairment: Yes = 1  Current long-term health status  Long-term health impairment: Yes = 1  Curlify (0.010)  Curlify (0.010)  Current long-term health impairment: Yes = 1  Current long-term health status  Current number of children  Non-resident children aged 0-4  Non-resident children aged 6-14  Current number of children aged 15-24  Current number of children aged 0-4  Current number aged 0-4  Current number of children aged 15-24  Current number of children aged 0-4  Current number of children aged 0-14  Current nu	Widowed		
Current long-term health status  Long-term health impairment: Yes = 1  Current number of children  Non-resident children aged 0-4  Current number of children aged 0-4  Current health impairment: Yes = 1  Current number of children  Non-resident children aged 6-14  Cunday (0.043)  Current number of children aged 6-14  Cunday (0.044)  Cunday (0	Current long-term health status Long-term health impairment: Yes = 1  Cong-term health inpairment: Yes = 1  Cong-term health impairment: Yes = 1  Cong-term health inpairment: Yes = 1	Never married and not de facto		
Current long-term health status         Long-term health impairment: Yes = 1       -0.124*** (0.010) (0.010)         Highest education level completed       -0.012 (0.038) (0.041)         Graduate diploma/certificate       -0.012 (0.038) (0.041)         Bachelor honours       -0.075** -0.056 (0.034) (0.037)         Advanced diploma, diploma       -0.005 (0.049) (0.053)         Cert III or IV       0.000 (0.049) (0.053)         Cert III and below       (0.047) (0.048)         Year 12       -0.061 (0.047) (0.048)         Year 11 and below       (0.058) (0.056)         Current number of children       0.059 (0.058) (0.056)         Non-resident children aged 0-4       -0.140*** (0.044) (0.034)         Non-resident children aged 2-5       (0.015) (0.015)         Non-resident children aged 6-14       (0.099)** (0.009)         Non-resident children aged 15-24       (0.022) (0.018)         Non-resident children aged 0-4       (0.014) (0.013)         Resident children aged 2-5       -0.060*** (0.009)         Resident children aged 3-5       -0.069*** (0.009)         Resident children aged 6-14       -0.022** (0.018)         Resident children aged 6-14       -0.099*** (0.009)         Resident children aged 6-14       -0.009*** (0.009)	Current long-term health impairment: Yes = 1       -0.124***       -0.153***         Long-term health impairment: Yes = 1       -0.124***       -0.153***         (0.010)       (0.010)         Highest education level completed         Graduate diploma/certificate       -0.012       -0.065         (0.038)       (0.041)         Bachelor honours       -0.075**       -0.056         (0.034)       (0.037)         Advanced diploma, diploma       -0.005       -0.117**         Advanced diploma, diploma       -0.005       -0.117**         Cert III or IV       0.000       -0.084*         Year 12       -0.061       -0.070         Year 12       -0.061       -0.070         Year 11 and below       0.059       -0.108*         Year 11 and below       0.059       -0.108*         Year 12       -0.061       -0.070         Year 14       -0.044       -0.059         Year 19       -0.059       -0.108*         Year 10       -0.014       -0.059         Year 11       -0.140***       -0.080**         Year 12       -0.014       -0.016         Year 13       -0.014       -0.016         <			
Long-term health impairment: Yes = 1  -0.124*** (0.010) (0.010)  Highest education level completed  Graduate diploma/certificate  -0.012 -0.065 (0.038) (0.041)  Bachelor honours -0.075*** -0.056 (0.034) (0.037)  Advanced diploma, diploma -0.005 -0.117** (0.049) (0.053)  Cert III or IV -0.061 (0.047) (0.048)  Year 12 -0.061 -0.070 (0.043) (0.045)  Year 11 and below -0.059 -0.108* (0.058) (0.058) -0.059 -0.108* (0.058) (0.056)  Current number of children  Non-resident children aged 0-4 -0.140*** -0.080** -0.099** -0.001 -0.002 -0.001 -0.002 -0.001 -0.009 -0.	Long-term health impairment: Yes = 1  -0.124*** (0.010) (0.010)  Highest education level completed  Graduate diploma/certificate  -0.012 -0.065 (0.038) (0.041)  Bachelor honours -0.075** -0.056 (0.034) (0.037)  Advanced diploma, diploma -0.005 -0.117** (0.049) (0.053)  Cert III or IV -0.061 -0.000 -0.084* (0.047) (0.048)  Year 12 -0.061 -0.070 (0.043) (0.045)  Year 11 and below -0.059 -0.108* (0.059) -0.108* (0.058) (0.056)  Current number of children  Non-resident children aged 0-4 -0.140*** -0.080** (0.044) (0.034) Non-resident children aged 6-14 -0.099*** -0.001 -0.001 -0.002 -0.0018)  Non-resident children aged 15-24 -0.016 -0.016 -0.016 -0.013  Resident children aged 2-5 -0.009 -0.009 -0.009  Resident children aged 2-5 -0.009*** -0.009 -0.009 -0.009 -0.009 -0.009 -0.009	Current long-term health status	(***==)	(***==)
Highest education level completed Graduate diploma/certificate Graduate diploma/certificate Graduate diploma/certificate Graduate diploma/certificate Graduate diploma/certificate Graduate diploma Graduate	Mighest education level completed   Graduate diploma/certificate   -0.012   -0.065   (0.038)   (0.041)     Bachelor honours   -0.075**   -0.056   (0.034)   (0.037)     Advanced diploma, diploma   -0.005   -0.117**   (0.049)   (0.053)     Cert III or IV   0.000   -0.084*   (0.047)   (0.048)     Year 12   -0.061   -0.070   (0.043)   (0.045)     Year 11 and below   0.059   -0.108*   (0.045)   (0.058)   (0.056)     Current number of children   Non-resident children aged 0-4   -0.140***   -0.080**   (0.044)   (0.034)     Non-resident children aged 6-14   -0.099***   -0.022   (0.015)   (0.015)     Non-resident children aged 15-24   -0.016   -0.016   (0.014)   (0.013)     Resident children aged 2-5   -0.009***   -0.022   (0.019)   (0.009)   (0.009)     Resident children aged 2-5   -0.009***   -0.0019   (0.009)		-0.124***	-0.153***
Highest education level completed         Graduate diploma/certificate       -0.012       -0.065         (0.038)       (0.041)         Bachelor honours       -0.075**       -0.056         (0.034)       (0.037)         Advanced diploma, diploma       -0.005       -0.117**         (0.049)       (0.053)         Cert III or IV       0.000       -0.084*         (0.047)       (0.048)         Year 12       -0.061       -0.070         (0.043)       (0.045)         Year 11 and below       0.059       -0.108*         (0.058)       (0.056)         Current number of children       0.059       -0.108*         Non-resident children aged 0-4       -0.140***       -0.080**         Non-resident children aged 2-5       -0.007       -0.001         Non-resident children aged 6-14       -0.099***       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Non-resident children aged 0-4       -0.022**       0.005         Resident children aged 0-4       -0.022**       0.005         Resident children aged 6-14       -0.099**       -0.022**         0.009       (0.009)       (0.009)	Highest education level completed         Graduate diploma/certificate       -0.012       -0.065         (0.038)       (0.041)         Bachelor honours       -0.075**       -0.056         Advanced diploma, diploma       -0.005       -0.117**         Advanced diploma, diploma       (0.049)       (0.053)         Cert III or IV       0.000       -0.084*         (0.047)       (0.048)         Year 12       -0.061       -0.070         (0.043)       (0.045)         Year 11 and below       0.059       -0.108*         Current number of children       0.059       -0.108*         Non-resident children aged 0-4       -0.140***       -0.080**         Non-resident children aged 2-5       -0.007       -0.001         Non-resident children aged 6-14       -0.099***       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Non-resident children aged 0-4       -0.016       -0.016         Non-resident children aged 0-4       -0.022*       0.005         Resident children aged 2-5       -0.016       -0.016         Non-resident children aged 2-5       -0.016       -0.016         Non-resident children aged 2-5       -0.010       <			
Graduate diploma/certificate       -0.012 (0.038) (0.041)         Bachelor honours       -0.075** -0.056 (0.034) (0.037)         Advanced diploma, diploma       -0.005 -0.117** (0.049) (0.053)         Cert III or IV       0.000 -0.084* (0.047) (0.048)         Year 12       -0.061 -0.070 (0.043) (0.045)         Year 11 and below       0.059 -0.108* (0.058) (0.056)         Current number of children       -0.140*** -0.080** (0.056)         Non-resident children aged 0-4       -0.140*** -0.080** (0.015) (0.015)         Non-resident children aged 6-14       -0.099*** -0.001 (0.015) (0.015)         Non-resident children aged 15-24       -0.016 (0.014) (0.013) (0.013) (0.013)         Resident children aged 0-4       -0.022** (0.018) (0.009) (0.009)         Resident children aged 6-14       -0.022** (0.018) (0.013) (0.013) (0.013) (0.013) (0.022)         Resident children aged 6-14       -0.022** (0.018) (0.009) (0.009)         Resident children aged 6-14       -0.022** (0.008) (0.009) (0.009)         Resident children aged 6-14       -0.022** (0.008) (0.009) (0.009)         Resident children aged 6-14       -0.022** (0.008) (0.009) (0.009)	Graduate diploma/certificate       -0.012       -0.065         Bachelor honours       -0.075**       -0.056         Advanced diploma, diploma       (0.034)       (0.037)         Advanced diploma, diploma       (0.049)       (0.053)         Cert III or IV       0.000       -0.084*         (0.047)       (0.048)         Year 12       -0.061       -0.070         (0.043)       (0.045)         Year 11 and below       0.059       -0.108*         Current number of children       -0.140***       -0.080**         Non-resident children aged 0-4       -0.140***       -0.080***         Non-resident children aged 2-5       -0.007       -0.001         Non-resident children aged 6-14       -0.099****       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Non-resident children aged 0-4       -0.016       -0.016         Non-resident children aged 0-4       -0.022**       0.005         Resident children aged 2-5       -0.006***       -0.006***         -0.009       -0.009       -0.009***	Highest education level completed	,	,
Bachelor honours   Co.038   Co.041   Bachelor honours   Co.075**   Co.056   Co.034   Co.037   Co.005   Co.005   Co.117**   Co.005   Co.005   Co.117**   Co.009   Co	Bachelor honours   (0.038) (0.041)	Graduate diploma/certificate	-0.012	-0.065
Advanced diploma, diploma -0.005 -0.117** (0.049) (0.053) Cert III or IV -0.006 -0.084* (0.047) (0.048) Year 12 -0.061 -0.070 (0.043) (0.045) Year 11 and below -0.059 -0.108* (0.058) (0.056)  Current number of children Non-resident children aged 0-4 -0.140*** -0.080** (0.044) (0.034) Non-resident children aged 2-5 -0.007 -0.001 (0.015) (0.015) Non-resident children aged 6-14 -0.099*** -0.022 (0.022) (0.018) Resident children aged 2-5 -0.006 -0.016 -0.016 (0.014) (0.013) Resident children aged 2-5 -0.007 -0.001 (0.015) -0.016 -0.016 (0.014) (0.013) Resident children aged 6-14 -0.022** -0.005 (0.009) (0.009) Resident children aged 6-14 -0.023) (0.022) Resident children aged 6-14 -0.044*** -0.034*** -0.034***	Advanced diploma, diploma -0.005 -0.117** (0.049) (0.053) Cert III or IV -0.000 -0.084* (0.047) (0.048) Year 12 -0.061 -0.070 (0.043) (0.045) Year 11 and below -0.059 -0.108* (0.058) (0.056)  Current number of children Non-resident children aged 0-4 -0.140*** -0.080** (0.044) (0.034) Non-resident children aged 2-5 -0.007 -0.001 (0.015) (0.015) Non-resident children aged 15-24 -0.099*** -0.022 (0.022) (0.018) Non-resident children aged 0-4 -0.009) (0.009) Resident children aged 2-5 -0.009*** -0.005 -0.007 -0.016 -0.016 -0.016 -0.016 -0.016 -0.016 -0.019 -0.009) Resident children aged 2-5	•	(0.038)	(0.041)
Advanced diploma, diploma -0.005	Advanced diploma, diploma -0.005	Bachelor honours	-0.075**	-0.056
Cert III or IV 0.0049 (0.053) Cert III or IV 0.000 -0.084* (0.047) (0.048) Year 12 -0.061 -0.070 (0.043) (0.045) Year 11 and below 0.059 -0.108* (0.058) (0.056)  Current number of children Non-resident children aged 0-4 -0.140*** -0.080** (0.044) (0.034) Non-resident children aged 2-5 -0.007 -0.001 Non-resident children aged 6-14 -0.099*** -0.022 (0.022) (0.018) Non-resident children aged 15-24 -0.016 -0.016 (0.014) (0.013) Resident children aged 2-5 -0.009** Resident children aged 2-5 -0.069*** -0.095 Resident children aged 6-14 -0.022** 0.005 (0.009) Resident children aged 6-14 -0.044*** -0.039* Resident children aged 6-14 -0.044*** -0.034*** (0.009) (0.009)	Cert III or IV 0.049 (0.053)  Cert III or IV 0.000 -0.084* (0.047) (0.048)  Year 12 -0.061 -0.070 (0.043) (0.045)  Year 11 and below 0.059 -0.108* (0.058) (0.056)  Current number of children  Non-resident children aged 0-4 -0.140*** -0.080** (0.044) (0.034)  Non-resident children aged 2-5 -0.007 -0.001 (0.015) (0.015)  Non-resident children aged 6-14 -0.099*** -0.022 (0.022) (0.018)  Non-resident children aged 15-24 -0.016 (0.014) (0.013)  Resident children aged 0-4 -0.022** 0.005 (0.009) (0.009)  Resident children aged 2-5 -0.069*** -0.039*		(0.034)	(0.037)
Cert III or IV       0.000       -0.084*         Year 12       -0.061       -0.070         (0.043)       (0.045)         Year 11 and below       0.059       -0.108*         (0.058)       (0.056)         Current number of children         Non-resident children aged 0-4       -0.140***       -0.080**         (0.044)       (0.034)         Non-resident children aged 2-5       -0.007       -0.001         Non-resident children aged 6-14       -0.099***       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Non-resident children aged 0-4       -0.022**       0.005         Resident children aged 2-5       -0.069***       -0.099         Resident children aged 6-14       -0.022**       0.005         (0.009)       (0.009)       (0.009)         Resident children aged 6-14       -0.044***       -0.034***         (0.023)       (0.022)         Resident children aged 6-14       -0.044***       -0.034***	Cert III or IV       0.000       -0.084*         Year 12       -0.061       -0.070         (0.043)       (0.045)         Year 11 and below       0.059       -0.108*         (0.058)       (0.056)         Current number of children         Non-resident children aged 0-4       -0.140***       -0.080**         (0.044)       (0.034)         Non-resident children aged 2-5       -0.007       -0.001         (0.015)       (0.015)         Non-resident children aged 6-14       -0.099***       -0.022         (0.022)       (0.018)         Non-resident children aged 15-24       -0.016       -0.016         (0.014)       (0.013)         Resident children aged 0-4       -0.022**       0.005         (0.009)       (0.009)         Resident children aged 2-5       -0.069***       -0.039*	Advanced diploma, diploma	-0.005	-0.117**
Year 12  -0.061 -0.070 (0.043) (0.045) Year 11 and below  0.059 -0.108* (0.058) (0.056)  Current number of children Non-resident children aged 0-4 (0.044) (0.034) Non-resident children aged 2-5 (0.015) Non-resident children aged 6-14 (0.022) (0.018) Non-resident children aged 15-24 (0.014) Resident children aged 0-4 (0.009) Resident children aged 2-5 (0.009) Resident children aged 6-14 (0.009)	Year 12			
Year 12 $-0.061$ $-0.070$ Year 11 and below $0.059$ $-0.108*$ Current number of children $(0.058)$ $(0.056)$ Current number of children $(0.044)$ $(0.044)$ Non-resident children aged 0-4 $(0.044)$ $(0.044)$ Non-resident children aged 2-5 $(0.007)$ $(0.015)$ Non-resident children aged 6-14 $(0.022)$ $(0.018)$ Non-resident children aged 15-24 $(0.016)$ $(0.014)$ $(0.013)$ Resident children aged 0-4 $(0.022)^*$ $(0.009)$ $(0.009)$ Resident children aged 2-5 $(0.009)^*$ $(0.009)$ $(0.009)$ Resident children aged 6-14 $(0.023)$ $(0.022)$ Resident children aged 6-14 $(0.044)^{**}$ $(0.044)^{**}$ $(0.034)^{**}$ Resident children aged 6-14 $(0.023)$ $(0.022)$ Resident children aged 6-14 $(0.044)^{**}$ $(0.044)^{**}$ $(0.034)^{**}$ Resident children aged 6-14 $(0.044)^{**}$ $(0.044)^{**}$ $(0.034)^{**}$	Year 12       -0.061       -0.070         Year 11 and below       0.059       -0.108*         Current number of children       (0.058)       (0.056)         Current children aged 0-4       -0.140***       -0.080**         Non-resident children aged 2-5       -0.007       -0.001         Non-resident children aged 6-14       -0.099***       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Resident children aged 0-4       -0.022**       0.005         Resident children aged 2-5       -0.069***       -0.009         Resident children aged 2-5       -0.069***       -0.039*	Cert III or IV	0.000	-0.084*
Year 11 and below 0.059 -0.108* (0.045) Current number of children Non-resident children aged 0-4 -0.140*** -0.080** (0.034) Non-resident children aged 2-5 -0.007 -0.001 (0.015) (0.015) Non-resident children aged 6-14 -0.099*** -0.022 (0.022) (0.018) Non-resident children aged 15-24 -0.016 -0.016 (0.014) (0.013) Resident children aged 0-4 -0.022** 0.005 (0.009) (0.009) Resident children aged 2-5 -0.069*** -0.039* (0.022) Resident children aged 6-14 -0.044*** -0.034*** (0.010) (0.009)	Year 11 and below 0.059 -0.108* (0.058) (0.056)  Current number of children  Non-resident children aged 0-4 -0.140*** -0.080** (0.044) (0.034)  Non-resident children aged 2-5 -0.007 -0.001 (0.015) (0.015)  Non-resident children aged 6-14 -0.099*** -0.022 (0.022) (0.018)  Non-resident children aged 15-24 -0.016 (0.014) (0.013)  Resident children aged 0-4 -0.022** 0.005 (0.009) (0.009)  Resident children aged 2-5 -0.069*** -0.039*		` ,	· /
Year 11 and below       0.059 (0.058)       -0.108* (0.056)         Current number of children       0.059 (0.058)       (0.056)         Non-resident children aged 0-4       -0.140*** -0.080** (0.044)       -0.080** (0.034)         Non-resident children aged 2-5       -0.007 -0.001 (0.015)       (0.015)         Non-resident children aged 6-14       -0.099*** -0.022 (0.018)         Non-resident children aged 15-24       -0.016 (0.014) (0.013)         Resident children aged 0-4       -0.022** (0.009) (0.009)         Resident children aged 2-5       -0.069*** -0.039* (0.002)         Resident children aged 6-14       -0.044*** -0.034*** (0.010) (0.009)	Year 11 and below       0.059       -0.108*         (0.058)       (0.056)         Current number of children       -0.140***       -0.080**         Non-resident children aged 0-4       (0.044)       (0.034)         Non-resident children aged 2-5       -0.007       -0.001         Non-resident children aged 6-14       -0.099***       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Resident children aged 0-4       -0.022**       0.005         Resident children aged 2-5       -0.069***       -0.039*	Year 12		
Current number of children  Non-resident children aged 0-4  Non-resident children aged 2-5  Non-resident children aged 2-5  Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 6-14  Resident children aged 2-5  Resident children aged 6-14	Current number of children  Non-resident children aged 0-4  Non-resident children aged 2-5  Non-resident children aged 2-5  Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 0-4  Resident children aged 2-5  (0.058)  (0.044)  (0.044)  (0.015)  (0.015)  (0.015)  (0.015)  (0.015)  (0.018)  (0.014)  (0.013)  (0.014)  (0.013)  (0.009)  (0.009)  (0.009)  Resident children aged 2-5		( )	
Current number of children         Non-resident children aged 0-4       -0.140*** (0.080** (0.0044) (0.034)         Non-resident children aged 2-5       -0.007 (0.015) (0.015)         Non-resident children aged 6-14       -0.099*** -0.022 (0.018)         Non-resident children aged 15-24       -0.016 (0.014) (0.013)         Resident children aged 0-4       -0.022** (0.009) (0.009)         Resident children aged 2-5       -0.069*** -0.039* (0.002)         Resident children aged 6-14       -0.044*** (0.010) (0.009)	Current number of children         Non-resident children aged 0-4       -0.140***       -0.080**         Non-resident children aged 2-5       -0.007       -0.001         Non-resident children aged 6-14       -0.099***       -0.022         Non-resident children aged 15-24       -0.016       -0.016         Non-resident children aged 0-4       -0.022**       0.005         Resident children aged 0-4       -0.022**       0.005         Resident children aged 2-5       -0.069***       -0.039*	Year 11 and below		
Non-resident children aged 0-4  Non-resident children aged 2-5  Non-resident children aged 2-5  Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 15-24  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 2-5  Resident children aged 6-14  Non-resident children aged 0-4  Non-resident children aged 0-14  Non-resident children aged 0-1	Non-resident children aged 0-4  Non-resident children aged 2-5  Non-resident children aged 2-5  Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 15-24  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 2-5  Non-resident children aged 0-4  Non-		(0.058)	(0.056)
Non-resident children aged 2-5   -0.007   -0.001   (0.015)   (0.015)   (0.015)   (0.015)   (0.015)   (0.015)   (0.015)   (0.012)   (0.022)   (0.018)   (0.022)   (0.018)   (0.014)   (0.013)   (0.014)   (0.013)   (0.014)   (0.013)   (0.009)   (0.009)   (0.009)   (0.009)   (0.009)   (0.009)   (0.009)   (0.0022)   (0.0023)   (0.022)   (0.003)   (0.0022)   (0.009)	(0.044) (0.034)   Non-resident children aged 2-5			
Non-resident children aged 2-5  Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 15-24  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 2-5  Resident children aged 6-14  Non-resident children aged 15-24	Non-resident children aged 2-5  Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 15-24  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 2-5  -0.007  -0.009***  -0.022  (0.018)  -0.016  (0.014)  (0.013)  -0.022**  0.005  (0.009)  Resident children aged 2-5  -0.069***  -0.039*	Non-resident children aged 0-4		
Non-resident children aged 6-14	Non-resident children aged 6-14		. ,	,
Non-resident children aged 6-14  Non-resident children aged 15-24  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 6-14	Non-resident children aged 6-14  Non-resident children aged 6-14  Non-resident children aged 15-24  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 0-4  Resident children aged 2-5  -0.069***  -0.022  0.001  0.001  0.001  0.002  0.009  -0.009  -0.039*	Non-resident children aged 2-5		
Non-resident children aged 15-24 $(0.022)$ $(0.018)$ Resident children aged 0-4 $(0.014)$ $(0.013)$ Resident children aged 2-5 $(0.009)$ $(0.009)$ Resident children aged 6-14 $(0.013)$ $(0.022)$ Resident children aged 6-14 $(0.013)$ $(0.022)$ $(0.022)$	(0.022) (0.018)  Non-resident children aged 15-24  Resident children aged 0-4  Resident children aged 2-5  (0.022) (0.018)  -0.016  -0.014  (0.014)  (0.013)  -0.022**  (0.009)  (0.009)  -0.069***  -0.039*	N		
Non-resident children aged 15-24 $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Non-resident children aged 15-24 -0.016 (0.014) (0.013) Resident children aged 0-4 -0.022** 0.005 (0.009) (0.009) Resident children aged 2-5 -0.069*** -0.039*	Non-resident children aged 6-14		
(0.014) (0.013)  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 6-14  (0.014) (0.013)  (0.002)*  (0.009) (0.009)  (0.003) (0.022)  (0.023) (0.022)  (0.010) (0.009)	(0.014) (0.013) Resident children aged 0-4 (0.005) (0.009) (0.009) Resident children aged 2-5 (0.009*** -0.039*	N	( )	` ,
Resident children aged 0-4  Resident children aged 0-4  Resident children aged 2-5  Resident children aged 6-14	Resident children aged 0-4 -0.022** 0.005 (0.009) (0.009)  Resident children aged 2-5 -0.069*** -0.039*	Non-resident children aged 15-24		
(0.009) (0.009)  Resident children aged 2-5  Resident children aged 6-14  (0.009) (0.009)  (0.009)  (0.002)  (0.010) (0.009)	(0.009) (0.009) Resident children aged 2-5 -0.069*** -0.039*	D	` ,	
Resident children aged 2-5 -0.069*** -0.039* (0.023) (0.022) Resident children aged 6-14 -0.044*** (0.010) (0.009)	Resident children aged 2-5 -0.069*** -0.039*	kesident children aged 0-4		
(0.023) (0.022) Resident children aged 6-14 (0.010) (0.009)		D	` ,	
Resident children aged 6-14 -0.044*** -0.034*** (0.010) (0.009)	10 10 to 10 10 10 10 10 10 10 10 10 10 10 10 10	Kesident children aged 2-5		
(0.010) $(0.009)$		Desident shildren agad ( 14		
		kesident children aged 6-14		
	Resident children aged 15-24 (0.010) (0.009) $-0.053*** -0.045***$	Desident shildren aged 15 24		

	(0.012)	(0.012)
Current homeownership status		
Rent or pay board	-0.031***	0.006
	(0.012)	(0.011)
Involved in a rent-buy scheme	-0.010	0.132*
	(0.126)	(0.077)
Live here rent free/free tenure	-0.003	-0.004
	(0.026)	(0.023)
Constant	0.340**	0.010
	(0.146)	(0.136)
Year dummies	Yes	Yes
Personality traits and their interactions with life events	Yes	Yes
Individual fixed effects	Yes	Yes
Observations	87,005	86,741
Within R-squared	0.042	0.051
Number of unique individuals	12,047	12,046

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. Life satisfaction and mental health (SF-36) is standardized so that it has zero mean and a standard deviation of one. The estimates are based on the specifications reported in Columns 4 of Tables 2 and 3, respectively. This sample is denoted as 'Sample 2' in Section 4. The excluded reference groups are: employed full-time, married, postgraduate degree, and own home/paying mortgage.

**Table 3A: Balanced panel estimates** 

	Life satisfaction		Mental healtl	1	
VARIABLES	Females	Males	Females	Males	
Negative life events					
Death of a close friend	-0.013	-0.020	-0.059***	-0.046***	
	(0.019)	(0.020)	(0.019)	(0.018)	
Death of close family members	-0.011	-0.016	-0.093***	-0.087***	
	(0.016)	(0.017)	(0.016)	(0.016)	
Major worsening in finances	-0.358***	-0.316***	-0.331***	-0.352***	
	(0.046)	(0.044)	(0.041)	(0.042)	
Fired or made redundant	0.001	-0.063**	-0.075**	-0.060**	
	(0.036)	(0.031)	(0.034)	(0.029)	
Serious injury/illness to family members	-0.028**	-0.017	-0.096***	-0.074***	
	(0.014)	(0.015)	(0.014)	(0.015)	
Serious personal injury/illness	-0.178***	-0.154***	-0.219***	-0.178***	
	(0.025)	(0.023)	(0.025)	(0.024)	
Close family member detained in jail	-0.061	0.058	-0.067	-0.014	
	(0.051)	(0.071)	(0.052)	(0.064)	
Victim of a property crime	-0.074***	-0.089***	-0.060**	-0.051**	
	(0.026)	(0.026)	(0.025)	(0.022)	
Separated from spouse	-0.258***	-0.241***	-0.226***	-0.276***	
	(0.042)	(0.039)	(0.036)	(0.038)	
Victim of physical violence	-0.325***	-0.177***	-0.391***	-0.179***	
	(0.064)	(0.063)	(0.066)	(0.058)	
Interaction terms					
Death of a close friend × Standardized LOC	0.005	-0.021	0.002	0.010	
	(0.022)	(0.024)	(0.021)	(0.022)	
Death of close family members × Standardized LOC	-0.004	0.005	0.015	0.008	
	(0.019)	(0.024)	(0.018)	(0.021)	
Major worsening in finances × Standardized LOC	0.059	0.138**	0.005	0.171***	
	(0.039)	(0.056)	(0.036)	(0.041)	
Fired or made redundant × Standardized LOC	0.100**	-0.006	0.024	0.004	
	(0.039)	(0.050)	(0.033)	(0.038)	
Serious injury/illness to family members × Standardized LOC	-0.009	-0.010	0.009	0.030	
	(0.016)	(0.021)	(0.015)	(0.019)	
Serious personal injury/illness × Standardized LOC	0.014	0.097***	-0.006	0.104***	
	(0.027)	(0.032)	(0.022)	(0.032)	
Close family member detained in jail × Standardized LOC	-0.035	0.052	0.068	0.085	
	(0.062)	(0.079)	(0.053)	(0.069)	
Victim of a property crime × Standardized LOC	-0.002	0.052	-0.010	0.013	
	(0.030)	(0.038)	(0.026)	(0.028)	
Separated from spouse × Standardized LOC	-0.009	0.084**	-0.022	0.089**	
	(0.040)	(0.040)	(0.033)	(0.039)	
Victim of physical violence × Standardized LOC	-0.045	0.184**	-0.028	0.113*	
	(0.059)	(0.075)	(0.051)	(0.062)	
Observations	23,405	19,426	23,334	19,354	
Number of unique individuals	2,097	1,759	2,097	1,759	

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. The sample includes individuals aged 21-59 who appeared in all HILDA waves from Wave 2 to Wave 13. Other controls are as in Table 4.

<u>Table 4A: Robustness checks – including individual's willingness to take financial risks and the extent of social relationship as additional control variables</u>

Life satisfaction		tion			
VARIABLES	(1)	(2)	(3)	(4)	
Negative life events					
Death of a close friend	-0.036***	-0.038***	-0.042***	-0.044***	
	(0.014)	(0.014)	(0.013)	(0.013)	
Death of close family members	0.004	0.004	0.035**	-0.075***	
	(0.011)	(0.011)	(0.017)	(0.011)	
Major worsening in finances	-0.310***	-0.310***	-0.323***	-0.321***	
	(0.036)	(0.035)	(0.032)	(0.032)	
Fired or made redundant	0.011	0.009	-0.031	-0.033	
	(0.023)	(0.023)	(0.022)	(0.022)	
Serious injury/illness to family members	-0.014	-0.014	-0.074***	-0.074***	
	(0.010)	(0.010)	(0.010)	(0.010)	
Serious personal injury/illness	-0.112***	-0.115***	-0.170***	-0.171***	
	(0.016)	(0.016)	(0.016)	(0.016)	
Close family member detained in jail	-0.008	-0.008	-0.048	-0.049	
	(0.039)	(0.039)	(0.038)	(0.038)	
Victim of a property crime	-0.052***	-0.051***	-0.044***	-0.045***	
	(0.017)	(0.017)	(0.016)	(0.016)	
Separated from spouse	-0.156***	-0.155***	-0.252***	-0.253***	
	(0.029)	(0.029)	(0.026)	(0.026)	
Victim of physical violence	-0.211***	-0.211***	-0.238***	-0.240***	
	(0.044)	(0.045)	(0.045)	(0.045)	
Interaction terms					
Death of a close friend × Standardized LOC	0.006	0.008	0.035**	0.036**	
	(0.019)	(0.019)	(0.017)	(0.017)	
Death of close family members × Standardized LOC	0.001	0.001	0.012	0.013	
	(0.015)	(0.015)	(0.015)	(0.015)	
Major worsening in finances × Standardized LOC	0.019	0.018	0.050	0.051	
	(0.038)	(0.038)	(0.033)	(0.033)	
Fired or made redundant × Standardized LOC	0.008	0.009	0.004	0.004	
	(0.031)	(0.031)	(0.027)	(0.027)	
Serious injury/illness to family members × Standardized LOC	0.004	0.004	0.038***	0.037***	
	(0.014)	(0.013)	(0.013)	(0.013)	
Serious personal injury/illness × Standardized LOC	0.009	0.006	0.066***	0.062***	
	(0.021)	(0.021)	(0.021)	(0.021)	
Close family member detained in jail × Standardized LOC	0.004	0.007	0.082*	0.086*	
	(0.050)	(0.050)	(0.049)	(0.049)	
Victim of a property crime × Standardized LOC	0.013	0.016	0.021	0.025	
	(0.025)	(0.024)	(0.022)	(0.022)	
Separated from spouse × Standardized LOC	-0.040	-0.040	0.061**	0.062**	
	(0.033)	(0.033)	(0.029)	(0.029)	
Victim of physical violence × Standardized LOC	0.087*	0.087*	0.105**	0.108**	
	(0.050)	(0.050)	(0.052)	(0.052)	
Chandandinal millinguage to tale Commission of CIDICIA		0.002		0.010	
Standardized willingness to take financial risks (FIRISK)		0.003		0.010	
Standardized assisting (LSSOCAL)		(0.007)		(0.007)	
Standardized socialization (LSSOCAL)		0.030***		0.048***	
Observations	46 100	(0.004)	46 100	(0.004)	
Observations Number of unique individuals	46,188 9,264	46,188 9,264	46,188 9,264	46,188 9,264	
runnoer or unique marviduals	9,404	9,∠04	9,∠04	9,∠04	

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. Robust standard errors – clustered at the individual level – are reported. Other controls are as in Table 4.

Table 5A: Interacting quarterly timing data with individual's locus of control

ath of a close friend 0-3 months ago (Q1)  ath of a close friend 4-6 months ago (Q2)  ath of a close friend 7-9 months ago (Q3)  ath of a close friend 10-12 months ago (Q4)  ath of a close friend (Q1) × Standardized LOC	(FE) -0.033** (0.015) -0.042** (0.021) -0.025 (0.024) -0.039* (0.023) 0.009 (0.018)	(FE) -0.043*** (0.015) -0.038** (0.018) -0.017 (0.023) -0.033
ath of a close friend 4-6 months ago (Q2) ath of a close friend 7-9 months ago (Q3) ath of a close friend 10-12 months ago (Q4)	(0.015) -0.042** (0.021) -0.025 (0.024) -0.039* (0.023) 0.009	(0.015) -0.038** (0.018) -0.017 (0.023) -0.033
ath of a close friend 7-9 months ago (Q3) ath of a close friend 10-12 months ago (Q4)	-0.042** (0.021) -0.025 (0.024) -0.039* (0.023) 0.009	-0.038** (0.018) -0.017 (0.023) -0.033
ath of a close friend 7-9 months ago (Q3) ath of a close friend 10-12 months ago (Q4)	(0.021) -0.025 (0.024) -0.039* (0.023) 0.009	(0.018) -0.017 (0.023) -0.033
ath of a close friend 10-12 months ago (Q4)	-0.025 (0.024) -0.039* (0.023) 0.009	-0.017 (0.023) -0.033
ath of a close friend 10-12 months ago (Q4)	(0.024) -0.039* (0.023) 0.009	(0.023) -0.033
	-0.039* (0.023) 0.009	-0.033
	(0.023) 0.009	
ath of a close friend (O1) × Standardized LOC	0.009	
ath of a close friend (O1) × Standardized LOC		(0.021)
	(() () (X)	0.038**
4.6.1.6:1/02/		(0.017)
ath of a close friend (Q2) X Standardized LOC	0.026	0.046**
-4h -f1 fi 1 (O2) Y Standardi 1 OC	(0.023) 0.008	(0.019) 0.009
ath of a close friend (Q3) X Standardized LOC	(0.025)	
ath of a close friend (Q4) X Standardized LOC	-0.024	(0.024) 0.019
ath of a close friend (Q4) \(^{\) Standardized LOC	(0.025)	(0.022)
ath of close family members 0-3 months ago (Q1)	-0.025	-0.110***
ath of close family members 0-3 months ago (Q1)	(0.017)	(0.017)
ath of close family members 4-6 months ago (Q2)	-0.003	0.017)
auti of close family memoers 4-6 months ago (Q2)	(0.018)	(0.017)
ath of close family members 7-9 months ago (Q3)	-0.008	-0.035**
and of close family inclineers 7-7 months ago (Q3)	(0.017)	(0.016)
ath of close family members 10-12 months ago (Q4)	0.011	0.044***
util of close family inclineers 10-12 months ago (Q+)	(0.014)	(0.014)
ath of close family members (Q1) X Standardized LOC	-0.023	-0.019
uni or crose tuning memoers (Q1)	(0.020)	(0.018)
ath of close family members (Q2) X Standardized LOC	-0.007	0.010
uni of close family incliners (Q2)	(0.022)	(0.019)
ath of close family members (Q3) X Standardized LOC	-0.013	-0.016
uni or crose tuning memoers (43)	(0.018)	(0.017)
ath of close family members (Q4) X Standardized LOC	-0.014	0.007
uni er viese imini) inemeers (Q1)	(0.017)	(0.014)
ajor worsening in finances 0-3 months ago (Q1)	-0.298***	-0.338***
gor wordening in minutes of a monaid ago (Q2)	(0.041)	(0.037)
ajor worsening in finances 4-6 months ago (Q2)	-0.295***	-0.301***
g	(0.040)	(0.037)
ajor worsening in finances 7-9 months ago (Q3)	-0.358***	-0.268***
	(0.050)	(0.044)
ajor worsening in finances 10-12 months ago (Q4)	-0.382***	-0.266***
	(0.049)	(0.036)
ajor worsening in finances (Q1) X Standardized LOC	0.045	0.065**
	(0.036)	(0.030)
ajor worsening in finances (Q2) X Standardized LOC	-0.050	0.005
	(0.039)	(0.032)
ajor worsening in finances (Q3) X Standardized LOC	-0.016	-0.036
	(0.047)	(0.039)
ajor worsening in finances (Q4) X Standardized LOC	-0.011	-0.014
	(0.041)	(0.031)
red or made redundant 0-3 months ago (Q1)	-0.027	-0.083***
	(0.030)	(0.029)
ed or made redundant 4-6 months ago (Q2)	-0.098***	-0.080***
	(0.034)	(0.029)
ed or made redundant 7-9 months ago (Q3)	-0.021	-0.013
	(0.036)	(0.032)

Fired or made redundant 10-12 months ago (Q4)	-0.033	0.028
	(0.032)	(0.028)
Fired or made redundant (Q1) X Standardized LOC	0.017	0.001
	(0.035)	(0.031)
Fired or made redundant (Q2) X Standardized LOC	0.051	0.027
	(0.040)	(0.029)
Fired or made redundant (Q3) X Standardized LOC	-0.007	-0.008
	(0.036)	(0.034)
Fired or made redundant (Q4) X Standardized LOC	-0.008	0.034
	(0.036)	(0.028)
Serious injury/illness to family members 0-3 months ago (Q1)	-0.011	-0.093***
	(0.011)	(0.011)
Serious injury/illness to family members 4-6 months ago (Q2)	-0.047***	-0.061***
	(0.014)	(0.014)
Serious injury/illness to family members 7-9 months ago (Q3)	-0.025	-0.022
	(0.016)	(0.016)
Serious injury/illness to family members 10-12 months ago (Q4)	-0.024*	-0.069***
	(0.014)	(0.013)
Serious injury/illness to family members (Q1) X Standardized LOC	-0.012	-0.003
	(0.013)	(0.012)
Serious injury/illness to family members (Q2) X Standardized LOC	0.010	0.028*
	(0.018)	(0.015)
Serious injury/illness to family members (Q3) X Standardized LOC	0.019	0.013
	(0.018)	(0.017)
Serious injury/illness to family members (Q4) X Standardized LOC	0.037**	0.026*
	(0.017)	(0.014)
Serious personal injury/illness 0-3 months ago (Q1)	-0.125***	-0.237***
	(0.020)	(0.020)
Serious personal injury/illness 4-6 months ago (Q2)	-0.113***	-0.113***
	(0.023)	(0.022)
Serious personal injury/illness 7-9 months ago (Q3)	-0.149***	-0.143***
	(0.025)	(0.025)
Serious personal injury/illness 10-12 months ago (Q4)	-0.172***	-0.156***
	(0.025)	(0.023)
Serious personal injury/illness (Q1) X Standardized LOC	-0.001	0.009
	(0.022)	(0.021)
Serious personal injury/illness (Q2) X Standardized LOC	0.007	0.034*
	(0.027)	(0.020)
Serious personal injury/illness (Q3) X Standardized LOC	0.035	0.029
	(0.028)	(0.026)
Serious personal injury/illness (Q4) X Standardized LOC	0.051*	0.029
	(0.026)	(0.022)
Close family member detained in jail 0-3 months ago (Q1)	-0.032	-0.054
	(0.043)	(0.041)
Close family member detained in jail 4-6 months ago (Q2)	-0.073	-0.128**
	(0.052)	(0.053)
Close family member detained in jail 7-9 months ago (Q3)	0.074	0.008
	(0.069)	(0.063)
Close family member detained in jail 10-12 months ago (Q4)	-0.051	0.071
	(0.058)	(0.057)
Close family member detained in jail (Q1) X Standardized LOC	0.044	0.112***
	(0.050)	(0.042)
Close family member detained in jail (Q2) X Standardized LOC	0.022	-0.004
	(0.057)	(0.058)
Close family member detained in jail (Q3) X Standardized LOC	-0.141	-0.040
	(0.086)	(0.061)
Close family member detained in jail (Q4) X Standardized LOC	0.132**	0.146**
	(0.058)	(0.061)
Victim of a property crime 0-3 months ago (Q1)	-0.070***	-0.036*
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Victim of a property crime 7-9 months ago (Q3)         -0.096*** -0.016 (0.031) (0.027)           Victim of a property crime 10-12 months ago (Q4)         -0.014 -0.028 (0.030) (0.028)           Victim of a property crime (Q1) × Standardized LOC         0.061*** 0.020 (0.023) (0.021)           Victim of a property crime (Q2) × Standardized LOC         0.048* 0.028 (0.029) (0.027)           Victim of a property crime (Q3) × Standardized LOC         0.072** 0.008 (0.036) (0.029) (0.027)           Victim of a property crime (Q4) × Standardized LOC         0.072** 0.008 (0.029) (0.029) (0.027)           Victim of a property crime (Q4) × Standardized LOC         0.029 (0.024) (0.037) (0.029) (0.024) (0.037) (0.029)           Separated from spouse 0-3 months ago (Q1)         -0.335*** -0.500*** (0.041) (0.037)           Separated from spouse 4-6 months ago (Q2)         -0.152*** -0.152*** -0.193*** (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.035) (0.034) (0.037) (0.041) (0.041) (0.034) (0.027) (0.041) (0.041) (0.034) (0.027) (0.041) (0.041) (0.034) (0.027) (0.041) (0.041) (0.034) (0.027) (0.041) (0.041) (0.034) (0.027) (0.041) (0.041) (0.038) (0.037) (0.043) (0.035) (0.034) (0.037) (0.043) (0.035) (0.034) (0.037) (0.043) (0.035) (0.034) (0.037) (0.043) (0.035) (0.034) (0.037) (0.043) (0.035) (0.034) (0.037) (0.044) (0.038) (0.037) (0.044) (0.038) (0.037) (0.044) (0.042) (0.038) (0.037) (0.044) (0.042) (0.038) (0.037) (0.044) (0.042) (0.042) (0.038) (0.037) (0.044) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.042) (0.0		(0.020)	(0.019)
Victim of a property crime 7-9 months ago (Q3)         -0.096***         -0.016           Victim of a property crime 10-12 months ago (Q4)         -0.014         -0.028           Victim of a property crime (Q1) × Standardized LOC         0.061***         0.020           Victim of a property crime (Q2) × Standardized LOC         0.048*         0.028           Victim of a property crime (Q3) × Standardized LOC         0.072**         0.008           Victim of a property crime (Q3) × Standardized LOC         0.072**         0.008           Victim of a property crime (Q4) × Standardized LOC         0.036         0.029           Victim of a property crime (Q4) × Standardized LOC         0.037         0.029           Separated from spouse 0-3 months ago (Q1)         -0.33***         -0.50***           Separated from spouse 4-6 months ago (Q2)         -0.152***         -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.213***         -0.202***           Separated from spouse 10-12 months ago (Q4)         -0.113***         -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q3) × Standardized LOC         0.033         0.033           Separated from spouse (Q3) × Standardi	Victim of a property crime 4-6 months ago (Q2)	-0.069***	-0.059***
Victim of a property crime 10-12 months ago (Q4)         (0.031) (0.028) (0.028) (0.028) (0.028)           Victim of a property crime (Q1) × Standardized LOC         0.061*** 0.022 (0.021)           Victim of a property crime (Q2) × Standardized LOC         0.048* 0.028 (0.029) (0.027)           Victim of a property crime (Q3) × Standardized LOC         0.072** 0.008 (0.029) (0.027)           Victim of a property crime (Q4) × Standardized LOC         0.029 (0.036) (0.029) (0.027)           Victim of a property crime (Q4) × Standardized LOC         0.099 (0.037) (0.029) (0.037) (0.029)           Separated from spouse 0-3 months ago (Q1)         -0.335*** -0.500***           Separated from spouse 4-6 months ago (Q2)         -0.152*** -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.213*** -0.202***           Separated from spouse 10-12 months ago (Q4)         -0.115*** -0.085***           Separated from spouse (Q1) × Standardized LOC         (0.031) (0.027)           Separated from spouse (Q2) × Standardized LOC         (0.031) (0.027)           Separated from spouse (Q2) × Standardized LOC         (0.038) (0.037)           Separated from spouse (Q3) × Standardized LOC         (0.038) (0.037)           Separated from spouse (Q4) × Standardized LOC         (0.038) (0.037)           Victim of physical violence 0-3 months ago (Q1)         -0.026 (0.042) (0.058)           Victim of physical violence 0-3 months ago (Q3) </td <td></td> <td></td> <td></td>			
Victim of a property crime 10-12 months ago (Q4)         -0.014 (0.030) (0.028)           Victim of a property crime (Q1) × Standardized LOC         0.061*** 0.020           Victim of a property crime (Q2) × Standardized LOC         0.048* 0.028 (0.029) (0.027)           Victim of a property crime (Q3) × Standardized LOC         0.072** 0.008 (0.029) (0.027)           Victim of a property crime (Q4) × Standardized LOC         0.072** 0.008 (0.037) (0.029)           Victim of a property crime (Q4) × Standardized LOC         0.029 (0.037) (0.029)           Separated from spouse 0-3 months ago (Q1)         -0.335*** -0.500***           Separated from spouse 4-6 months ago (Q2)         -0.152*** -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.015** -0.003*           Separated from spouse 10-12 months ago (Q4)         -0.113*** -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022 (0.010 (0.031) (0.027)           Separated from spouse (Q1) × Standardized LOC         -0.015 (0.038) (0.037)           Separated from spouse (Q3) × Standardized LOC         -0.015 (0.038) (0.037)           Separated from spouse (Q3) × Standardized LOC         -0.015 (0.038) (0.037)           Separated from spouse (Q3) × Standardized LOC         -0.015 (0.038) (0.037)           Victim of physical violence 0-3 months ago (Q1)         -0.070** (0.058)           Victim of physical violence 4-6 months ago (Q2)	Victim of a property crime 7-9 months ago (Q3)		
Victim of a property crime (Q1) × Standardized LOC         (0.061*** 0.020 (0.023) (0.021)           Victim of a property crime (Q2) × Standardized LOC         0.048* 0.028 (0.029)           Victim of a property crime (Q3) × Standardized LOC         0.048* 0.028 (0.029)           Victim of a property crime (Q4) × Standardized LOC         0.072* 0.003 (0.029)           Victim of a property crime (Q4) × Standardized LOC         0.029 (0.037) (0.029)           Separated from spouse 0-3 months ago (Q1)         -0.335*** -0.500***           Separated from spouse 4-6 months ago (Q2)         -0.152*** -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.213*** -0.202***           Separated from spouse 10-12 months ago (Q4)         -0.113*** -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022 0.010           Separated from spouse (Q1) × Standardized LOC         0.022 0.010           Separated from spouse (Q2) × Standardized LOC         -0.015 0.043           Separated from spouse (Q3) × Standardized LOC         -0.015 0.043           Separated from spouse (Q3) × Standardized LOC         -0.016 0.038           Separated from spouse (Q3) × Standardized LOC         -0.016 0.038           Victim of physical violence 0-3 months ago (Q1)         -0.308*** -0.412***           Victim of physical violence 0-3 months ago (Q1)         -0.308*** -0.112***           Victim of p		` /	,
Victim of a property crime (Q1) × Standardized LOC         0.061***         0.020           Victim of a property crime (Q2) × Standardized LOC         0.048*         0.028           Victim of a property crime (Q3) × Standardized LOC         0.072**         0.008           Victim of a property crime (Q3) × Standardized LOC         0.029         0.024           Victim of a property crime (Q4) × Standardized LOC         0.029         0.024           Separated from spouse 0-3 months ago (Q1)         0.0335***         -0.500***           Separated from spouse 4-6 months ago (Q2)         -0.152***         -0.193***           Separated from spouse 7-9 months ago (Q3)         0.213***         -0.202***           Separated from spouse 10-12 months ago (Q4)         0.043         (0.035)           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q1) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         -0.015         0.037           Separated from spouse (Q3) × Standardized LOC	Victim of a property crime 10-12 months ago (Q4)		
Victim of a property crime (Q2) × Standardized LOC       (0.023) (0.021) (0.027)         Victim of a property crime (Q3) × Standardized LOC       0.072** 0.008 (0.036) (0.029)         Victim of a property crime (Q4) × Standardized LOC       0.029 0.024 (0.037) (0.029)         Separated from spouse 0-3 months ago (Q1)       -0.335*** -0.500***         Separated from spouse 4-6 months ago (Q2)       -0.152*** -0.193***         Separated from spouse 4-6 months ago (Q3)       -0.213*** -0.202**         Separated from spouse 7-9 months ago (Q3)       -0.213*** -0.202**         Separated from spouse 10-12 months ago (Q4)       -0.113*** -0.085***         Separated from spouse (Q1) × Standardized LOC       0.022  0.010         Separated from spouse (Q1) × Standardized LOC       0.022  0.010         Separated from spouse (Q2) × Standardized LOC       0.016  0.038  0.037)         Separated from spouse (Q3) × Standardized LOC       0.016  0.038  0.037)         Separated from spouse (Q4) × Standardized LOC       0.016  0.038  0.037)         Victim of physical violence 0-3 months ago (Q1)       -0.006  0.009  0.006  0.009         Victim of physical violence 0-3 months ago (Q2)       -0.218***  0.192***         Victim of physical violence 7-9 months ago (Q3)       -0.066  0.022  0.019         Victim of physical violence (10-12 months ago (Q4)       -0.142**  0.006  0.059         Victim of physical violence (Q			, ,
Victim of a property crime (Q2) × Standardized LOC         0.048* (0.029) (0.027)           Victim of a property crime (Q3) × Standardized LOC         0.072** (0.036) (0.029)           Victim of a property crime (Q4) × Standardized LOC         0.029 (0.037) (0.029)           Victim of a property crime (Q4) × Standardized LOC         0.029 (0.037) (0.029)           Separated from spouse 0-3 months ago (Q1)         -0.335*** (0.044) (0.037)           Separated from spouse 4-6 months ago (Q2)         -0.152*** (0.034)           Separated from spouse 7-9 months ago (Q3)         -0.213*** (0.034)           Separated from spouse 10-12 months ago (Q4)         -0.113*** (0.031) (0.027)           Separated from spouse (Q1) × Standardized LOC         0.022 (0.010) (0.041) (0.034)           Separated from spouse (Q2) × Standardized LOC         0.015 (0.043) (0.038) (0.037)           Separated from spouse (Q3) × Standardized LOC         0.016 (0.038) (0.037)           Victim of physical violence 0-3 months ago (Q1)         -0.070** (0.004) (0.038)           Separated from spouse (Q3) × Standardized LOC         -0.070** (0.004)           Victim of physical violence 0-3 months ago (Q1)         -0.070** (0.004)           Victim of physical violence 0-3 months ago (Q1)         -0.218*** (0.006)           Victim of physical violence (P3 months ago (Q3)         -0.196*** (0.006)           Victim of physical violence (Q1) × Standardized LOC	Victim of a property crime (Q1) X Standardized LOC		
Victim of a property crime (Q3) × Standardized LOC         (0.029)         (0.027)           Victim of a property crime (Q4) × Standardized LOC         0.036         (0.029)           Victim of a property crime (Q4) × Standardized LOC         0.029         0.024           Separated from spouse 0-3 months ago (Q1)         -0.335****         -0.500***           Separated from spouse 4-6 months ago (Q2)         -0.152***         -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.213***         -0.020***           Separated from spouse 10-12 months ago (Q4)         -0.113***         -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q2) × Standardized LOC         0.022         0.010           Separated from spouse (Q3) × Standardized LOC         0.016         0.034           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Victim of physical violence 0-3 months ago (Q1)         -0.006         0.0042         0.038           Separated from spouse (Q4) × Standardized LOC         0.016         0.038         0.037           Victim of physical violence 0-3 months ago (Q1)         -0.006         0.0042         0.006           Victim of physical violence 0-4 months ago (Q2)         -0.218***         -0.192*** </td <td></td> <td></td> <td>, ,</td>			, ,
Victim of a property crime (Q3) × Standardized LOC         0.072**         0.008           Victim of a property crime (Q4) × Standardized LOC         0.029         0.024           Separated from spouse 0-3 months ago (Q1)         -0.335****         -0.500****           Separated from spouse 4-6 months ago (Q2)         -0.152***         -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.213***         -0.202***           Separated from spouse 10-12 months ago (Q4)         -0.113***         -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q2) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         -0.016         0.038           Separated from spouse (Q3) × Standardized LOC         -0.016         0.038           Separated from spouse (Q3) × Standardized LOC         -0.016         0.038           Separated from spouse (Q4) × Standardized LOC         -0.016         0.038           Victim of physical violence 0-3 months ago (Q1)         -0.308***         -0.412***           Victim of physical violence 0-3 months ago (Q2)         -0.218****         -0.090           Victim of physical violence 10-12 months ago (Q3)         -0.196***         -0.090           Victim of physical violence (Q1) × Sta	Victim of a property crime (Q2) X Standardized LOC		
Victim of a property crime (Q4) × Standardized LOC         (0.036) (0.029) (0.024) (0.037)         (0.029) (0.024) (0.037)           Separated from spouse 0-3 months ago (Q1)         -0.335*** -0.500***         -0.500***           Separated from spouse 4-6 months ago (Q2)         -0.152*** -0.193***         -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.213*** -0.202***         -0.0043         (0.035)           Separated from spouse 10-12 months ago (Q4)         -0.113*** -0.085***         -0.0022 (0.010)         -0.011           Separated from spouse (Q1) × Standardized LOC         0.022 (0.041)         -0.043           Separated from spouse (Q2) × Standardized LOC         -0.015 (0.043)         -0.038           Separated from spouse (Q3) × Standardized LOC         0.016 (0.038)         -0.037           Separated from spouse (Q4) × Standardized LOC         0.016 (0.038)         -0.038           Separated from spouse (Q4) × Standardized LOC         0.016 (0.038)         -0.070**         -0.006           Victim of physical violence 0-3 months ago (Q1)         -0.308***         -0.412***         -0.192***           Victim of physical violence 4-6 months ago (Q2)         -0.218***         -0.192***         -0.192***           Victim of physical violence (P1) × Standardized LOC         0.062 (0.059)         -0.196***         -0.190**           Victim o			, ,
Victim of a property crime (Q4) × Standardized LOC         0.029 (0.037) (0.029)           Separated from spouse 0-3 months ago (Q1)         -0.335*** -0.500***           Separated from spouse 4-6 months ago (Q2)         -0.152*** -0.193***           Separated from spouse 7-9 months ago (Q3)         -0.213*** -0.202***           Separated from spouse 10-12 months ago (Q4)         -0.113*** -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022 -0.010           Separated from spouse (Q2) × Standardized LOC         0.022 -0.010           Separated from spouse (Q3) × Standardized LOC         -0.015 -0.043           Separated from spouse (Q3) × Standardized LOC         0.016 -0.038           Separated from spouse (Q3) × Standardized LOC         0.016 -0.038           Separated from spouse (Q4) × Standardized LOC         0.016 -0.038           Victim of physical violence 0-3 months ago (Q1)         -0.070** -0.006           Victim of physical violence 0-3 months ago (Q2)         -0.128*** -0.192***           Victim of physical violence 4-6 months ago (Q3)         -0.196*** -0.090           Victim of physical violence 7-9 months ago (Q4)         -0.196*** -0.090           Victim of physical violence (Q1) × Standardized LOC         0.062 (0.059)           Victim of physical violence (Q1) × Standardized LOC         0.027 (0.043)           Victim of physical violence (Q1) × Standardized L	Victim of a property crime (Q3) X Standardized LOC	0.072**	0.008
Co.037			
Separated from spouse 0-3 months ago (Q1)	Victim of a property crime (Q4) X Standardized LOC	0.029	0.024
Separated from spouse 4-6 months ago (Q2)         (0.041)         (0.037)           Separated from spouse 7-9 months ago (Q3)         -0.152***         -0.193***           Separated from spouse 7-9 months ago (Q4)         -0.213***         -0.202***           Separated from spouse 10-12 months ago (Q4)         -0.113***         -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q2) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q4) × Standardized LOC         -0.070**         -0.006           Victim of physical violence 0-3 months ago (Q1)         -0.308***         -0.412**           Victim of physical violence 0-3 months ago (Q2)         -0.218***         -0.192***           Victim of physical violence 7-9 months ago (Q2)         -0.218***         -0.192***           Victim of physical violence 10-12 months ago (Q4)         -0.142*         -0.170***           Victim of physical violence (Q1) × Standardized LOC         0.064         (0.062)           Victim of physical violence (Q1) × Standardized LOC         -0.018         -0.027           Victim of physical violence (			
Separated from spouse 4-6 months ago (Q2)	Separated from spouse 0-3 months ago (Q1)		-0.500***
Co.035			(0.037)
Separated from spouse 7-9 months ago (Q3)         -0.213***         -0.202***           Separated from spouse 10-12 months ago (Q4)         -0.113***         -0.085***           -0.031         (0.027)           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q2) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q4) × Standardized LOC         -0.070**         -0.006           Victim of physical violence 0-3 months ago (Q1)         -0.308***         -0.412***           Victim of physical violence 4-6 months ago (Q2)         -0.218***         -0.12***           Victim of physical violence 7-9 months ago (Q3)         -0.196***         -0.090           Victim of physical violence 10-12 months ago (Q4)         -0.196***         -0.090           Victim of physical violence (Q1) × Standardized LOC         0.027         0.018           Victim of physical violence (Q2) × Standardized LOC         -0.018         -0.027           Victim of physical violence (Q3) × Standardized LOC         -0.018         -0.029           Victim of physical violence (Q3) × Standardized LOC         -0.018         -0.029           Victim of physical violence (Q3) × Standardized LOC         0.033	Separated from spouse 4-6 months ago (Q2)		
Separated from spouse 10-12 months ago (Q4)         (0.043)         (0.035)           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q2) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q4) × Standardized LOC         -0.070**         -0.006           Victim of physical violence 0-3 months ago (Q1)         -0.308***         -0.412***           Victim of physical violence 4-6 months ago (Q2)         -0.218***         -0.192***           Victim of physical violence 7-9 months ago (Q3)         -0.196***         -0.090           Victim of physical violence 10-12 months ago (Q4)         -0.142*         -0.170***           Victim of physical violence (Q1) × Standardized LOC         0.027         0.018           Victim of physical violence (Q2) × Standardized LOC         0.027         0.018           Victim of physical violence (Q3) × Standardized LOC         -0.018         -0.029           Victim of physical violence (Q3) × Standardized LOC         0.033         0.026           Victim of physical violence (Q3) × Standardized LOC         0.033         0.026           Victim of physical violence			
Separated from spouse 10-12 months ago (Q4)         -0.113***         -0.085***           Separated from spouse (Q1) × Standardized LOC         0.022         0.010           Separated from spouse (Q2) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q4) × Standardized LOC         0.016         0.038           Victim of physical violence 0-3 months ago (Q1)         -0.070**         -0.006           Victim of physical violence 4-6 months ago (Q2)         -0.218***         -0.192***           Victim of physical violence 7-9 months ago (Q3)         -0.196***         -0.090           Victim of physical violence 10-12 months ago (Q4)         -0.196***         -0.090           Victim of physical violence (Q1) × Standardized LOC         0.027         0.018           Victim of physical violence (Q2) × Standardized LOC         0.027         0.018           Victim of physical violence (Q2) × Standardized LOC         -0.018         -0.029           Victim of physical violence (Q3) × Standardized LOC         0.067         (0.058)           Victim of physical violence (Q3) × Standardized LOC         0.033         0.026           Victim of physical violence (Q	Separated from spouse 7-9 months ago (Q3)		
Separated from spouse (Q1) × Standardized LOC         (0.031)         (0.027)           Separated from spouse (Q2) × Standardized LOC         0.022         0.010           Separated from spouse (Q2) × Standardized LOC         -0.015         0.043           Separated from spouse (Q3) × Standardized LOC         0.016         0.038           Separated from spouse (Q4) × Standardized LOC         -0.070**         -0.006           Victim of physical violence 0-3 months ago (Q1)         -0.308***         -0.412***           Victim of physical violence 4-6 months ago (Q2)         -0.218***         -0.192***           Victim of physical violence 7-9 months ago (Q3)         -0.196***         -0.090           Victim of physical violence 10-12 months ago (Q4)         -0.142*         -0.170***           Victim of physical violence (Q1) × Standardized LOC         0.027         0.018           Victim of physical violence (Q2) × Standardized LOC         0.027         0.018           Victim of physical violence (Q2) × Standardized LOC         -0.018         -0.029           Victim of physical violence (Q3) × Standardized LOC         -0.018         -0.029           Victim of physical violence (Q3) × Standardized LOC         0.033         0.026           Victim of physical violence (Q3) × Standardized LOC         0.033         0.026           Victim of physica			
Separated from spouse (Q1) $\times$ Standardized LOC       0.022 (0.041) (0.034)         Separated from spouse (Q2) $\times$ Standardized LOC       -0.015 (0.038) (0.037)         Separated from spouse (Q3) $\times$ Standardized LOC       0.016 (0.038) (0.037)         Separated from spouse (Q4) $\times$ Standardized LOC       0.016 (0.042) (0.038) (0.042) (0.038)         Separated from spouse (Q4) $\times$ Standardized LOC       -0.070** -0.006 (0.031) (0.027)         Victim of physical violence 0-3 months ago (Q1)       -0.308*** -0.412*** (0.058) (0.047)         Victim of physical violence 4-6 months ago (Q2)       -0.218*** -0.192*** (0.062) (0.059)         Victim of physical violence 7-9 months ago (Q3)       -0.196*** -0.090 (0.064) (0.062)         Victim of physical violence 10-12 months ago (Q4)       -0.142* -0.170*** (0.064)         Victim of physical violence (Q1) $\times$ Standardized LOC       0.027 (0.018) (0.045)         Victim of physical violence (Q2) $\times$ Standardized LOC       -0.018 (0.067) (0.058)         Victim of physical violence (Q3) $\times$ Standardized LOC       -0.018 (0.067) (0.058)         Victim of physical violence (Q3) $\times$ Standardized LOC       0.033 (0.026) (0.057) (0.055)         Victim of physical violence (Q4) $\times$ Standardized LOC       0.033 (0.026) (0.055) (0.055)         Victim of physical violence (Q4) $\times$ Standardized LOC       0.039 (0.055)	Separated from spouse 10-12 months ago (Q4)	-0.113***	-0.085***
Separated from spouse (Q2) × Standardized LOC       (0.041)       (0.034)         Separated from spouse (Q3) × Standardized LOC       0.015       0.038         Separated from spouse (Q3) × Standardized LOC       0.016       0.038         Separated from spouse (Q4) × Standardized LOC       -0.070**       -0.006         Victim of physical violence 0-3 months ago (Q1)       -0.308***       -0.412***         Victim of physical violence 4-6 months ago (Q2)       -0.218***       -0.192***         Victim of physical violence 7-9 months ago (Q3)       -0.196***       -0.090         Victim of physical violence 10-12 months ago (Q4)       -0.142*       -0.170***         Victim of physical violence (Q1) × Standardized LOC       0.027       0.018         Victim of physical violence (Q2) × Standardized LOC       0.047       (0.045)         Victim of physical violence (Q3) × Standardized LOC       -0.018       -0.029         Victim of physical violence (Q3) × Standardized LOC       0.033       0.026         Victim of physical violence (Q4) × Standardized LOC       0.033       0.026         Victim of physical violence (Q4) × Standardized LOC       0.033       0.026		(0.031)	(0.027)
Separated from spouse (Q2) × Standardized LOC         -0.015 (0.038) (0.037)           Separated from spouse (Q3) × Standardized LOC         0.016 (0.042) (0.038)           Separated from spouse (Q4) × Standardized LOC         -0.070** -0.006 (0.031) (0.027)           Victim of physical violence 0-3 months ago (Q1)         -0.308*** -0.412*** (0.058) (0.047)           Victim of physical violence 4-6 months ago (Q2)         -0.218*** -0.192*** (0.062) (0.059)           Victim of physical violence 7-9 months ago (Q3)         -0.196*** -0.090 (0.064) (0.062)           Victim of physical violence 10-12 months ago (Q4)         -0.142* -0.170*** (0.073) (0.064)           Victim of physical violence (Q1) × Standardized LOC         0.027 (0.047) (0.045)           Victim of physical violence (Q2) × Standardized LOC         -0.018 (0.067) (0.058)           Victim of physical violence (Q3) × Standardized LOC         0.033 (0.026 (0.057) (0.055)           Victim of physical violence (Q3) × Standardized LOC         0.033 (0.026 (0.057) (0.055)           Victim of physical violence (Q4) × Standardized LOC         0.033 (0.026 (0.057) (0.055)	Separated from spouse (Q1) X Standardized LOC	0.022	
Comparison of physical violence 10-12 months ago (Q4)   Victim of physical violence 10-12 months ago (Q4)   Victim of physical violence (Q1)   X Standardized LOC   Standardized LOC   Standardized LOC   Comparison of physical violence (Q2)   X Standardized LOC   Comparison of physical violence (Q2)   Comparison of physical violence (Q3)   Comparison of physical violence (Q4)   X Standardized LOC   Comparison of physical violence (Q2)   Comparison of physical violence (Q3)   Comparison of physical violence (Q4)   Comparison of physical violence (Q5)   Comparison of physical violence (Q6)   Comparison of physical violence (Q7)   Comparison of physical violence (Q8)   Compar		(0.041)	(0.034)
Separated from spouse (Q3) $\times$ Standardized LOC       0.016 (0.042) (0.038)         Separated from spouse (Q4) $\times$ Standardized LOC       -0.070** -0.006 (0.031) (0.027)         Victim of physical violence 0-3 months ago (Q1)       -0.308*** -0.412*** (0.058) (0.047)         Victim of physical violence 4-6 months ago (Q2)       -0.218*** -0.192*** (0.062) (0.059)         Victim of physical violence 7-9 months ago (Q3)       -0.196*** -0.090 (0.064) (0.062)         Victim of physical violence 10-12 months ago (Q4)       -0.142* -0.170*** (0.073) (0.064)         Victim of physical violence (Q1) $\times$ Standardized LOC       0.027 (0.045) (0.045)         Victim of physical violence (Q2) $\times$ Standardized LOC       -0.018 (0.067) (0.058)         Victim of physical violence (Q3) $\times$ Standardized LOC       0.033 (0.026) (0.055)         Victim of physical violence (Q3) $\times$ Standardized LOC       0.033 (0.056) (0.055)         Victim of physical violence (Q4) $\times$ Standardized LOC       0.033 (0.056) (0.055)         Victim of physical violence (Q4) $\times$ Standardized LOC       0.033 (0.056) (0.055)          Victim of physical violence (Q4) $\times$ Standardized LOC       0.039 (0.055)	Separated from spouse (Q2) X Standardized LOC	-0.015	0.043
Separated from spouse (Q4) × Standardized LOC		(0.038)	(0.037)
Separated from spouse (Q4) $\times$ Standardized LOC       -0.070**       -0.006         Victim of physical violence 0-3 months ago (Q1)       -0.308***       -0.412***         Victim of physical violence 4-6 months ago (Q2)       -0.218***       -0.192***         Victim of physical violence 7-9 months ago (Q3)       -0.196***       -0.090         Victim of physical violence 10-12 months ago (Q4)       -0.142*       -0.170***         Victim of physical violence (Q1) $\times$ Standardized LOC       0.027       0.018         Victim of physical violence (Q2) $\times$ Standardized LOC       -0.018       -0.029         Victim of physical violence (Q3) $\times$ Standardized LOC       -0.018       -0.029         Victim of physical violence (Q3) $\times$ Standardized LOC       0.033       0.026         Victim of physical violence (Q4) $\times$ Standardized LOC       0.033       0.026         Victim of physical violence (Q4) $\times$ Standardized LOC       0.033       0.026         Victim of physical violence (Q4) $\times$ Standardized LOC       0.039       -0.020	Separated from spouse (Q3) X Standardized LOC	0.016	0.038
Victim of physical violence 0-3 months ago (Q1)       (0.031)       (0.027)         Victim of physical violence 4-6 months ago (Q2)       -0.308***       -0.412***         Victim of physical violence 4-6 months ago (Q2)       -0.218***       -0.192***         (0.062)       (0.059)         Victim of physical violence 7-9 months ago (Q3)       -0.196***       -0.090         (0.064)       (0.062)         Victim of physical violence 10-12 months ago (Q4)       -0.142*       -0.170***         (0.073)       (0.064)         Victim of physical violence (Q1) × Standardized LOC       0.027       0.018         (0.047)       (0.045)         Victim of physical violence (Q2) × Standardized LOC       -0.018       -0.029         (0.067)       (0.058)         Victim of physical violence (Q3) × Standardized LOC       0.033       0.026         (0.057)       (0.055)         Victim of physical violence (Q4) × Standardized LOC       0.039       -0.020		(0.042)	(0.038)
Victim of physical violence 0-3 months ago (Q1) $-0.308^{***}$ $-0.412^{***}$ Victim of physical violence 4-6 months ago (Q2) $-0.218^{***}$ $-0.192^{***}$ Victim of physical violence 7-9 months ago (Q3) $-0.196^{***}$ $-0.090$ Victim of physical violence 10-12 months ago (Q4) $-0.142^{**}$ $-0.170^{***}$ Victim of physical violence (Q1) × Standardized LOC $0.027$ $0.018$ Victim of physical violence (Q2) × Standardized LOC $0.027$ $0.018$ Victim of physical violence (Q3) × Standardized LOC $-0.018$ $-0.029$ Victim of physical violence (Q3) × Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) × Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) × Standardized LOC $0.033$ $0.026$	Separated from spouse (Q4) × Standardized LOC	-0.070**	-0.006
Victim of physical violence 4-6 months ago (Q2) $(0.058)$ $(0.047)$ Victim of physical violence 7-9 months ago (Q3) $-0.218***$ $-0.192***$ Victim of physical violence 7-9 months ago (Q3) $-0.196***$ $-0.090$ Victim of physical violence 10-12 months ago (Q4) $-0.142*$ $-0.170***$ Victim of physical violence (Q1) $\times$ Standardized LOC $0.027$ $0.018$ Victim of physical violence (Q2) $\times$ Standardized LOC $0.047$ $0.045$ Victim of physical violence (Q3) $\times$ Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) $\times$ Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) $\times$ Standardized LOC $0.039$ $-0.020$			(0.027)
Victim of physical violence 4-6 months ago (Q2) $-0.218^{***}$ $-0.192^{***}$ Victim of physical violence 7-9 months ago (Q3) $-0.196^{***}$ $-0.090$ Victim of physical violence 10-12 months ago (Q4) $-0.142^*$ $-0.170^{***}$ Victim of physical violence (Q1) × Standardized LOC $0.027$ $0.018$ Victim of physical violence (Q2) × Standardized LOC $0.047$ ) $(0.045)$ Victim of physical violence (Q3) × Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) × Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) × Standardized LOC $0.039$ $-0.020$	Victim of physical violence 0-3 months ago (Q1)	-0.308***	-0.412***
Victim of physical violence 7-9 months ago (Q3) $(0.062)$ $(0.059)$ Victim of physical violence 10-12 months ago (Q4) $(0.064)$ $(0.062)$ Victim of physical violence (Q1) × Standardized LOC $(0.073)$ $(0.064)$ Victim of physical violence (Q2) × Standardized LOC $(0.047)$ $(0.045)$ Victim of physical violence (Q2) × Standardized LOC $(0.067)$ $(0.058)$ Victim of physical violence (Q3) × Standardized LOC $(0.033)$ $(0.026)$ Victim of physical violence (Q4) × Standardized LOC $(0.057)$ $(0.055)$ Victim of physical violence (Q4) × Standardized LOC $(0.039)$ $(0.020)$			
Victim of physical violence 7-9 months ago (Q3) $-0.196***$ $-0.090$ Victim of physical violence 10-12 months ago (Q4) $-0.142*$ $-0.170***$ Victim of physical violence (Q1) $\times$ Standardized LOC $0.027$ $0.018$ Victim of physical violence (Q2) $\times$ Standardized LOC $0.047$ ) $0.045$ )         Victim of physical violence (Q2) $\times$ Standardized LOC $0.067$ ) $0.058$ )         Victim of physical violence (Q3) $\times$ Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) $\times$ Standardized LOC $0.039$ $-0.020$	Victim of physical violence 4-6 months ago (Q2)	-0.218***	-0.192***
Victim of physical violence 10-12 months ago (Q4) $(0.064)$ $(0.062)$ Victim of physical violence (Q1) × Standardized LOC $(0.073)$ $(0.064)$ Victim of physical violence (Q1) × Standardized LOC $(0.047)$ $(0.045)$ Victim of physical violence (Q2) × Standardized LOC $(0.067)$ $(0.058)$ Victim of physical violence (Q3) × Standardized LOC $(0.033)$ $(0.026)$ Victim of physical violence (Q4) × Standardized LOC $(0.057)$ $(0.055)$ Victim of physical violence (Q4) × Standardized LOC $(0.039)$ $(0.020)$			
Victim of physical violence 10-12 months ago (Q4) $-0.142^*$ $-0.170^{***}$ Victim of physical violence (Q1) × Standardized LOC $0.027$ $0.018$ Victim of physical violence (Q2) × Standardized LOC $-0.018$ $-0.029$ Victim of physical violence (Q3) × Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q3) × Standardized LOC $0.033$ $0.026$ Victim of physical violence (Q4) × Standardized LOC $0.039$ $-0.020$	Victim of physical violence 7-9 months ago (Q3)		
Victim of physical violence (Q1) $\times$ Standardized LOC       (0.073)       (0.064)         Victim of physical violence (Q2) $\times$ Standardized LOC       0.027       0.018         Victim of physical violence (Q2) $\times$ Standardized LOC       -0.018       -0.029         Victim of physical violence (Q3) $\times$ Standardized LOC       0.033       0.026         Victim of physical violence (Q4) $\times$ Standardized LOC       0.039       -0.020			
Victim of physical violence (Q1) $\times$ Standardized LOC0.0270.018Victim of physical violence (Q2) $\times$ Standardized LOC-0.018-0.029Victim of physical violence (Q3) $\times$ Standardized LOC0.0330.026Victim of physical violence (Q3) $\times$ Standardized LOC0.0330.026Victim of physical violence (Q4) $\times$ Standardized LOC0.039-0.020	Victim of physical violence 10-12 months ago (Q4)	-0.142*	-0.170***
Victim of physical violence (Q2) $\times$ Standardized LOC       (0.047)       (0.045)         Victim of physical violence (Q2) $\times$ Standardized LOC       -0.018       -0.029         Victim of physical violence (Q3) $\times$ Standardized LOC       0.033       0.026         Victim of physical violence (Q4) $\times$ Standardized LOC       0.039       -0.020			, ,
$\begin{array}{c} \text{Victim of physical violence (Q2)} \times \text{Standardized LOC} & -0.018 & -0.029 \\ & (0.067) & (0.058) \\ \text{Victim of physical violence (Q3)} \times \text{Standardized LOC} & 0.033 & 0.026 \\ & (0.057) & (0.055) \\ \text{Victim of physical violence (Q4)} \times \text{Standardized LOC} & 0.039 & -0.020 \\ \end{array}$	Victim of physical violence (Q1) X Standardized LOC		
Victim of physical violence (Q3) $\times$ Standardized LOC $(0.058)$ $0.033$ $0.026$ $(0.057)$ $(0.055)$ Victim of physical violence (Q4) $\times$ Standardized LOC $0.039$ $-0.020$		(0.047)	(0.045)
Victim of physical violence (Q3) $\times$ Standardized LOC0.0330.026(0.057)(0.055)Victim of physical violence (Q4) $\times$ Standardized LOC0.039-0.020	Victim of physical violence (Q2) X Standardized LOC	-0.018	-0.029
Victim of physical violence (Q4) $\times$ Standardized LOC (0.057) (0.055) 0.039 -0.020		(0.067)	(0.058)
Victim of physical violence (Q4) × Standardized LOC 0.039 -0.020	Victim of physical violence (Q3) X Standardized LOC	0.033	0.026
		(0.057)	(0.055)
(0.062) $(0.047)$		0.039	-0.020
( , ( , , , , , , , , , , , , , , , , ,		(0.062)	(0.047)

**Note**: \*<10%; \*\*<5%; \*\*\*<1%. FE = fixed effects. Robust standard errors – clustered at the individual level – are reported. Other controls are as in Table 4.