

Longitudinal Evidence on the Impact of Victimisation on Labour Market Outcomes and General Well-Being

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Motivation

- Large Economics literature on crime but little focus on crime victimisation
- Findings of large labour-market and well-being impacts from other life-changing events: unemployment, disability, divorce
- Research by sociologists and psychologists indicates large psychological impacts of victimisation
- Question: Are these impacts *causal*, or do they reflect unobserved heterogeneity?

Our Contribution

- We estimate the impact of being a victim of a violent crime or a property crime on labour market outcomes and general well-being using a representative panel dataset
 - Compare OLS with FE estimates to gauge the importance of selection into victimisation
 - Examine impacts on a range of outcomes collected in a large multi-purpose survey, including mental health, life satisfaction, and satisfaction with family relationships

Table 1: Victimization Rates Based on 2000 ICVS Survey:
(Percentage Victimized at least Once)

Country	11 Crimes	Car Theft	Burglary	Robbery	Personal Thefts	Sexual Incidents	Assaults & Threats
Australia	30.0	1.9	3.9	1.2	6.5	4.0	6.4
Belgium	21.4	0.7	2.0	1.0	4.1	1.1	3.2
Canada	23.8	1.4	2.3	0.9	4.7	2.1	5.3
Catalonia (Spain)	19.0	0.4	1.3	0.9	3.0	0.8	1.5
Denmark	23.0	1.1	3.1	0.7	4.1	2.5	3.6
England and Wales	26.4	2.1	2.8	1.2	4.6	2.7	6.1
Finland	19.1	0.4	0.3	0.6	3.3	3.7	4.2
France	21.4	1.7	1.0	1.1	3.0	1.1	4.2
Japan	15.2	0.1	1.1	0.1	0.5	1.2	0.4
Netherlands	25.2	0.4	1.9	0.8	4.7	3.0	3.4
N.Ireland	15.0	1.2	1.7	0.1	2.2	0.6	3.0
Poland	22.7	1.0	2.0	1.8	5.3	0.5	2.8
Portugal	15.5	0.9	1.4	1.1	1.9	0.6	0.9
Scotland	23.2	0.7	1.5	0.7	4.6	1.1	6.1
Sweden	24.7	1.3	1.7	0.9	5.8	2.6	3.8
Switzerland	18.2	0.3	1.1	0.7	4.4	2.1	2.4
USA	21.1	0.5	1.8	0.6	4.9	1.5	3.4
All Countries	21.3	1.0	1.8	0.8	3.9	1.7	3.5

Source : Kesteren *et. al.* (2000), pp.178-179

Table 2: Incarceration Rates - Prison Population/100,000

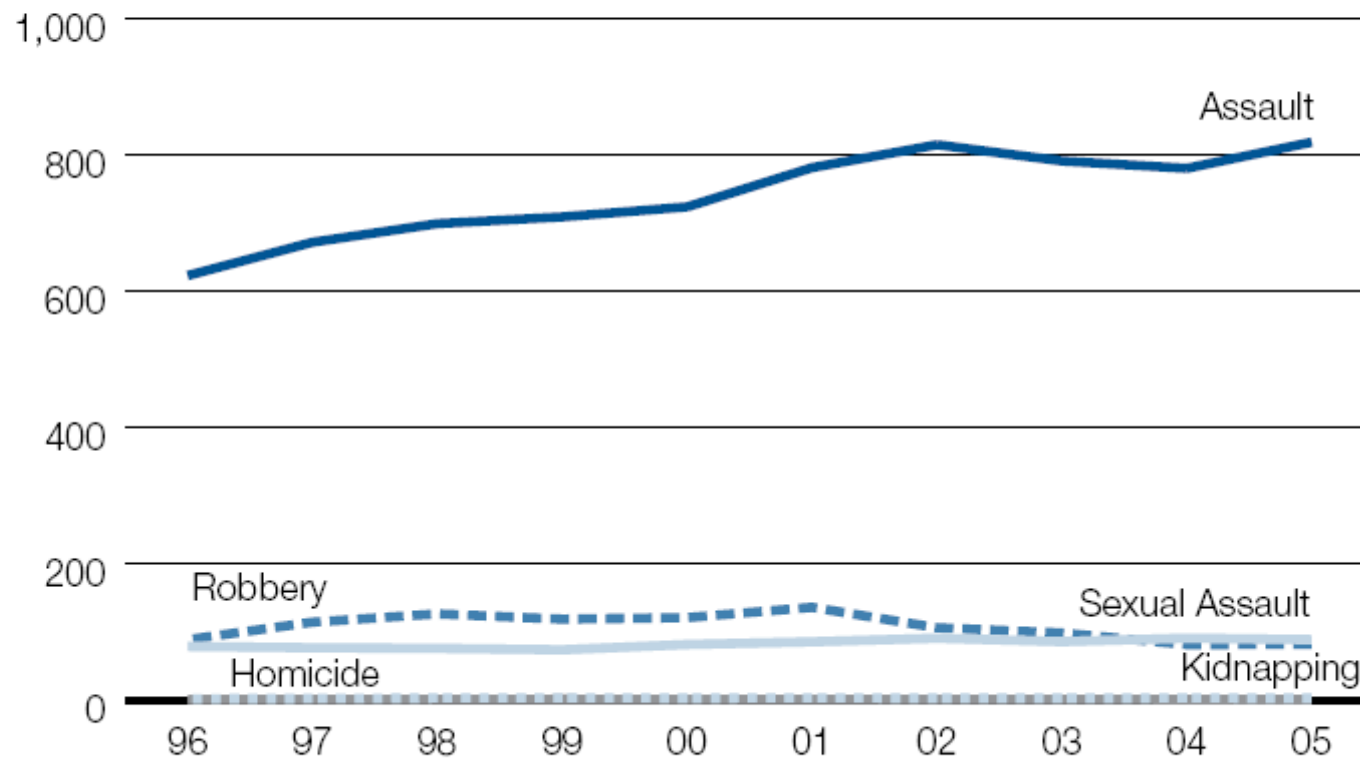
Country	1992	1995	1998	2001	2004
Australia	89	96	107	116	120
Belgium	71	75	81	85	88
Canada	123	131	126	117	108
Denmark	66	66	64	59	70
England and Wales	88	99	126	127	141
Finland	65	59	50	59	66
France	84	89	86	78	91
Japan	36	38	42	51	60
Netherlands	49	66	85	95	123
Sweden	63	65	60	68	81
USA	505	600	669	685	723
Germany	71	81	96	98	98
New Zealand	129	128	146	157	168

Source: Prison Brief, International Centre for Prison Studies, UK

Note: Prison population includes pre-trial detainees/remand prisoners

Violent crime rate

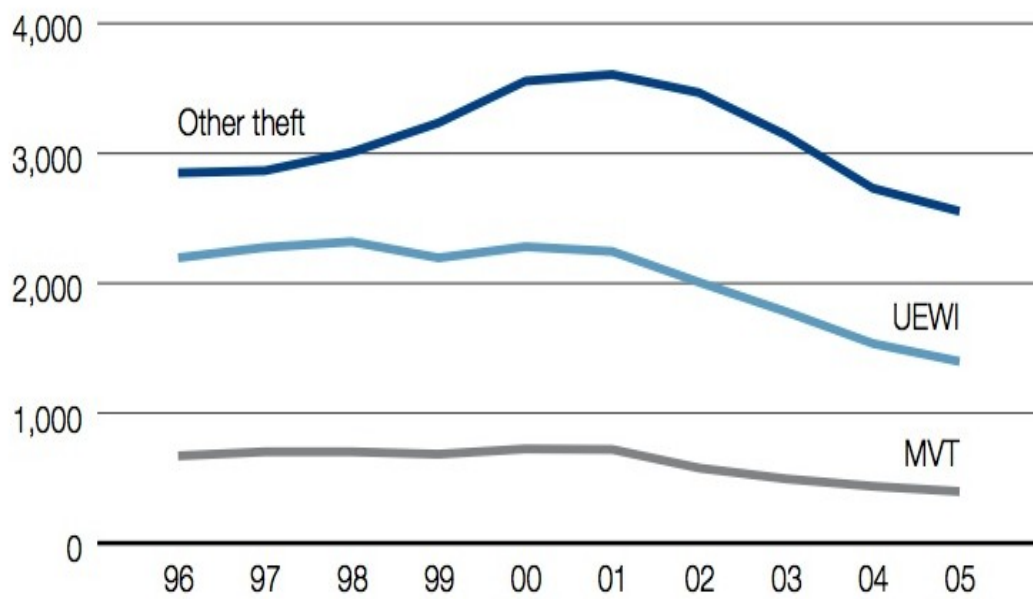
Figure 3: Violent crimes, 1996–2005 (rate per 100,000 persons)



Note: Homicide and kidnapping occur at rates of less than 5 per 100,000 each, and are difficult to distinguish on this chart

Property crime rate

Figure 4: Property crimes, 1996–2005 (rate per 100,000 persons)



Related Literature

Causes of crime:

- *Racial Underclass Theory* (Wilson, 1987) identifies poverty as source of crime
- *Relative Deprivation Theory* (Blau & Blau, 1982; Levitt, 1999) claims that income inequality, not poverty, explains crime
- *Routine activities/lifestyle theory* of crime (Miethe and Stafford, 1987)
- *Predatory victimisation* (Sampson, 1985)

Consequences of crime:

- ❖ Evidence of Post-Traumatic Stress Disorder (PTSD) among crime victims
- ❖ Intensity and duration vary with nature of crime - victims of violent crime being more at risk of suffering psychological damage (Freedy *et.al.*, 1994)
- ❖ Victimisation can 'activate long-term trajectories of mental distress' (Macmillan, 2001)

Related Literature (2)

Hedonic Adaptation:

- ‘Hedonic Treadmill’ theory (Brickman and Campbell, 1971): individuals enjoy stable levels of well-being over their lifetime

- Lucas *et. al.* (2003): Adaptation to marital transitions – individuals who get married experience increased well-being following the event but return to baseline well-being levels quickly, while those experiencing widowhood do not adapt.

- Clark *et. al.* (2003): (1) Men affected by negative labour-market outcomes such as unemployment and layoffs, women more sensitive to personal life events such as marriage and divorce. (2) Those with higher baseline satisfaction levels are more adversely affected by negative shocks.

Data

- Household Income and Labour Dynamics of Australia (HILDA) Survey started in 2001
- Starting in round 2 asked the following question:
 - “We now would like you to think about major events that have happened in your life over the past 12 months. For each statement cross either the NO box or the YES box to indicate whether each event happened during the past 12 months.”
- **“Victim of physical violence (e.g., assault)”**
- **“Victim of property crime (e.g., theft, housebreaking)”**

Data

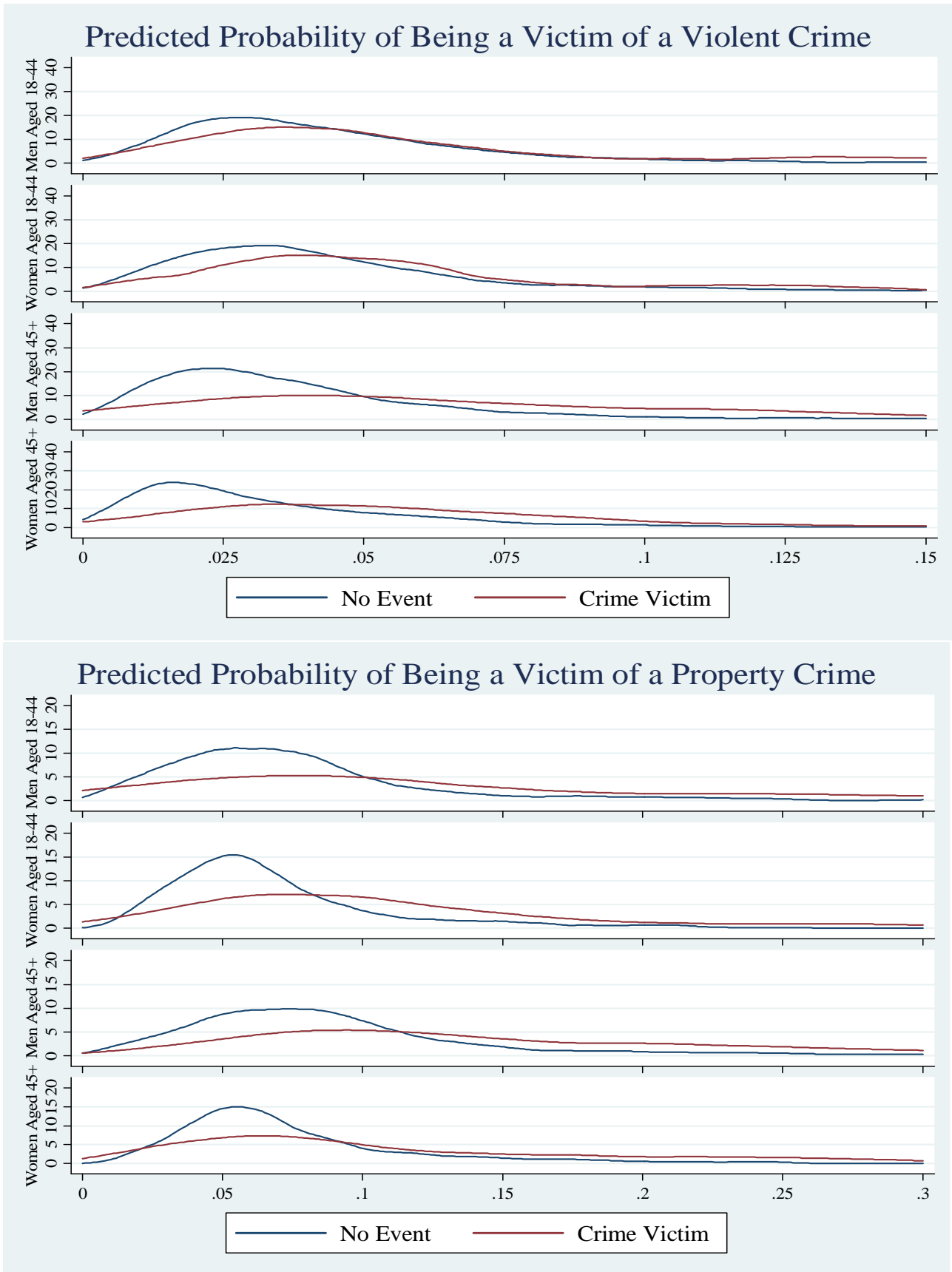
- Pooling rounds 2-5: 13,857 indiv and 42,158 obs aged 18+
- 696 obs where violent crime victim (1.7%),
- 2,441 obs where property crime victim (5.8%)
- Examine outcomes for 18-44 year-olds and 45+ year-olds by gender.
- Outcomes include: employment, benefit receipt, labour income, non-labour income, household income, general health, mental health, alcohol consumption, life satisfaction and satisfaction with family relationships

Table 3: Summary Statistics by Event Status

	All Observations	No Event	Violent Crime Victim	Property Crime Victim
Victim of a Violent Crime	1.7%	0%	100%	6.4%
Victim of a Property Crime	5.8%	0%	22.1%	100%
Age	45.6	46.0	35.1	40.3
Female	53%	53%	53%	49%
Aboriginal or Torres Strait Islander	2%	2%	7%	2%
Did Not Finish High School	34%	34%	33%	28%
Finished Year 12	15%	14%	19%	17%
Has Certificate or Diploma	30%	30%	33%	32%
Has Bachelor Degree or Higher	21%	21%	15%	24%
Is Employed	65%	64%	59%	71%
Receives Social Benefits	33%	33%	47%	32%
Real Total Income	33,787	33,758	28,298	35,278
Currently Married/De-Facto	67%	67%	39%	60%
SF-36 General Health	68.7	69.0	59.5	66.4
SF-36 Mental Health	74.2	74.6	60.5	71.0
Alcoholic Drinks Consumed/Month	28.07	27.74	42.04	30.43
Life Satisfaction	7.92	7.96	6.86	7.54
Satisfaction with Family Relationships	7.93	7.98	6.47	7.51
<i>Neighbourhood Characteristics</i>				
Traffic Noise	2.95	2.92	3.18	3.28
Teenagers Hanging Around	2.61	2.58	3.06	2.97
People Being Hostile	2.13	2.11	2.77	2.43
Vandalism	2.44	2.40	2.86	2.90
Burglary	2.65	2.61	3.04	3.30
Number of Observations	42,945	39,890	725	2,490

Notes: Individuals can experience more than one event and thus be included in multiple columns. Life satisfaction and satisfaction with family relationships are measured on a 1-10 scale with 10 the most satisfied, and neighbourhood quality is measured on a 1-7 scale with 7 being the most of a particular characteristics. Incomes are measured in 2001 dollars.

Figure 3: Predicted Probability of Being a Crime Victim



Regression Model

- We estimate a distributed lag model, allowing events to impact current and future outcomes

$$y_{it} = \sum_{j=0}^2 (Viol_{it-j}\beta_j + Prop_{it-j}\delta_j) + X_{it}\gamma + \alpha_i + e_{it}$$

- where $Viol(it-j)$ is an indicator variable which equals 1 if individual i reports having been a victim of a violent crime in the previous 12 months when interviewed at time $t-j$ and equals 0 otherwise
- $Prop(it-j)$ is an indicator variable which equals 1 if individual i reports having been a victim of a property crime in the previous 12 months when interviewed at time $t-j$ and equals 0 otherwise
- $X(it)$ is a vector of other control variables



Table 3: Outcomes for Individuals Who Are Never Crime Victims

	Men Aged 18-44	Women Aged 18-44	Men Aged 45+	Women Aged 45+
Is Employed	0.890 (0.004)	0.717 (0.005)	0.552 (0.005)	0.424 (0.005)
Receives Social Benefits	0.157 (0.004)	0.261 (0.005)	0.409 (0.005)	0.479 (0.005)
Real Labour Income	37,089 (413)	19,466 (222)	24,323 (414)	12,560 (211)
Real Non-Labour Income	7,342 (304)	6,903 (158)	16,783 (527)	12,661 (335)
Real Total Income	44,431 (512)	26,369 (254)	41,106 (642)	25,221 (386)
Real Total Household Income	77,680 (719)	76,105 (647)	67,091 (820)	59,889 (741)
Currently Married/De-Facto	0.617 (0.006)	0.665 (0.005)	0.798 (0.004)	0.650 (0.005)
SF-36 General Health	73.1 (0.2)	73.4 (0.2)	64.2 (0.2)	65.9 (0.2)
SF-36 Mental Health	75.4 (0.2)	73.0 (0.2)	76.6 (0.2)	74.9 (0.2)
Usual Alcoholic Drinks Consumed Per Month	38.5 (0.6)	16.2 (0.3)	41.6 (0.6)	16.8 (0.3)
Life Satisfaction	7.78 (0.02)	7.92 (0.01)	8.06 (0.02)	8.19 (0.02)
Satisfaction with Family Relationships	7.80 (0.02)	7.84 (0.02)	8.25 (0.02)	8.25 (0.02)
Number of Observations	7,685	9,173	8,403	9,616

Notes: Individuals can experience more than one event and thus be included in multiple columns. Life satisfaction and satisfaction with family relationships are measured on a 1-10 scale with 10 the most satisfied, and neighbourhood quality is measured on a 1-7 scale with 7 being the most of a particular characteristics. Standard errors are in parentheses. Incomes are measured in 2001 dollars.

Table 4: Impact of Victimization on Main Outcomes for 18-44 Year-Olds

		<u>Currently Employed</u>			<u>Log Real Total Income</u>			<u>SF-36 Mental Health</u>			<u>Life Satisfaction</u>		
		No Cov	Cov	FE	No Cov	Cov	FE	No Cov	Cov	FE	No Cov	Cov	FE
Impacts on Men													
Violent Crime Victim	Current Year	-0.100** (0.027)	-0.078** (0.026)	-0.004 (0.023)	-0.316** (0.093)	-0.119 (0.084)	-0.110 (0.105)	-8.304** (1.358)	-8.259** (1.343)	-1.232 (1.124)	-0.538** (0.117)	-0.579** (0.117)	-0.220* (0.104)
	One Year Ago	-0.075* (0.033)	-0.064+ (0.033)	-0.046+ (0.026)	-0.140 (0.090)	-0.014 (0.080)	-0.108 (0.116)	-3.505* (1.438)	-3.454* (1.456)	1.078 (1.241)	-0.238+ (0.138)	-0.282* (0.136)	-0.216+ (0.115)
	Two + Years Ago	-0.111** (0.039)	-0.103** (0.039)	-0.079** (0.030)	-0.077 (0.085)	0.011 (0.076)	-0.183 (0.134)	-6.038** (1.477)	-5.972** (1.467)	0.898 (1.433)	-0.474* (0.185)	-0.495** (0.184)	-0.166 (0.133)
Property Crime Victim	Current Year	-0.018 (0.013)	-0.016 (0.013)	0.005 (0.013)	-0.039 (0.052)	0.024 (0.050)	-0.017 (0.059)	-2.489** (0.621)	-2.643** (0.624)	0.275 (0.634)	-0.302** (0.062)	-0.315** (0.061)	-0.154** (0.059)
	One Year Ago	0.003 (0.014)	-0.011 (0.014)	0.000 (0.015)	-0.012 (0.063)	-0.062 (0.061)	-0.132* (0.066)	-1.056 (0.686)	-1.290+ (0.700)	0.597 (0.709)	-0.069 (0.064)	-0.086 (0.064)	0.011 (0.065)
	Two + Years Ago	0.007 (0.017)	-0.016 (0.018)	0.020 (0.018)	0.058 (0.063)	-0.103+ (0.058)	-0.148+ (0.081)	-1.233 (0.911)	-1.323 (0.948)	0.812 (0.869)	-0.150+ (0.082)	-0.136 (0.084)	0.024 (0.080)
Observations		10,227	10,227	9,475	10,227	10,227	9,475	10,200	10,200	9,449	10,224	10,224	9,472
Impacts on Women													
Violent Crime Victim	Current Year	-0.173** (0.030)	-0.141** (0.029)	0.054+ (0.030)	-0.005 (0.070)	0.127+ (0.068)	-0.062 (0.101)	-12.729** (1.232)	-11.891** (1.218)	-1.668 (1.152)	-0.888** (0.132)	-0.899** (0.132)	-0.157 (0.102)
	One Year Ago	-0.146** (0.037)	-0.137** (0.034)	0.040 (0.032)	0.000 (0.076)	0.037 (0.079)	-0.036 (0.108)	-5.793** (1.349)	-5.513** (1.343)	2.527* (1.245)	-0.604** (0.128)	-0.631** (0.129)	-0.002 (0.109)
	Two + Years Ago	-0.142** (0.042)	-0.143** (0.038)	0.026 (0.037)	0.002 (0.104)	0.002 (0.099)	-0.141 (0.124)	-6.911** (1.738)	-6.834** (1.749)	2.109 (1.416)	-0.419** (0.134)	-0.444** (0.133)	0.304* (0.125)
Property Crime Victim	Current Year	0.010 (0.017)	0.011 (0.016)	-0.022 (0.017)	0.057 (0.049)	0.069 (0.047)	-0.043 (0.057)	-2.513** (0.633)	-2.529** (0.625)	-0.231 (0.653)	-0.261** (0.059)	-0.245** (0.059)	-0.159** (0.058)
	One Year Ago	0.006 (0.019)	-0.001 (0.018)	-0.026 (0.019)	0.049 (0.064)	0.024 (0.063)	-0.070 (0.063)	-1.643* (0.741)	-1.950** (0.742)	-0.631 (0.723)	-0.074 (0.059)	-0.101+ (0.060)	-0.033 (0.064)
	Two + Years Ago	-0.003 (0.024)	-0.039+ (0.023)	-0.064** (0.023)	0.027 (0.079)	-0.082 (0.077)	-0.109 (0.075)	-0.866 (0.826)	-1.368 (0.852)	0.128 (0.858)	-0.119+ (0.067)	-0.127+ (0.068)	-0.082 (0.076)
Observations		11,788	11,788	11,094	11,788	11,788	11,094	11,758	11,758	11,069	11,785	11,785	11,092

Notes: The first specification does not include any additional covariates. The second specification includes controls for a quadratic in age, ethnicity, immigration status, education, location and remoteness. The third specification includes individual fixed effects in addition to the time-varying covariates in the second specification. Standard errors are in parentheses. ** 1% Significance, * 5% Significance, + 10% Significance

Table 5: Impact of Victimization on Main Outcomes for 45+ Year-Olds

		Currently Employed			Log Real Total Income			SF-36 Mental Health			Life Satisfaction		
		No Cov	Cov	FE	No Cov	Cov	FE	No Cov	Cov	FE	No Cov	Cov	FE
Impacts on Men													
Violent Crime Victim	Current Year	-0.051 (0.053)	-0.123* (0.048)	-0.100** (0.035)	-0.188 (0.206)	-0.256 (0.203)	0.245 (0.200)	-11.865** (2.415)	-11.354** (2.398)	-4.953** (1.687)	-1.382** (0.312)	-1.297** (0.308)	-0.774** (0.172)
	One Year Ago	-0.087 (0.062)	-0.139* (0.061)	-0.123** (0.039)	-0.295 (0.267)	-0.366 (0.273)	0.067 (0.221)	-8.016** (2.682)	-7.915** (2.698)	-4.466* (1.866)	-0.388 (0.276)	-0.348 (0.274)	0.056 (0.191)
	Two + Years Ago	0.043 (0.074)	-0.007 (0.066)	-0.058 (0.043)	0.085 (0.132)	0.004 (0.144)	0.450+ (0.246)	-1.787 (2.200)	-1.632 (2.182)	-1.902 (2.079)	-0.469* (0.227)	-0.399+ (0.218)	-0.215 (0.211)
Property Crime Victim	Current Year	0.068** (0.024)	0.016 (0.020)	0.024 (0.015)	0.099 (0.080)	-0.004 (0.079)	0.004 (0.087)	-1.226 (0.883)	-1.298 (0.869)	1.131 (0.737)	-0.260** (0.077)	-0.209** (0.078)	0.105 (0.074)
	One Year Ago	0.066** (0.024)	0.015 (0.020)	0.023 (0.016)	0.210** (0.067)	0.097 (0.066)	0.096 (0.091)	-1.048 (0.880)	-1.097 (0.880)	0.716 (0.772)	-0.155* (0.077)	-0.113 (0.078)	0.175* (0.078)
	Two + Years Ago	0.031 (0.031)	-0.006 (0.026)	0.012 (0.019)	0.049 (0.101)	-0.066 (0.099)	-0.027 (0.108)	-0.754 (1.050)	-1.004 (1.078)	0.858 (0.912)	-0.297** (0.109)	-0.248* (0.110)	0.006 (0.092)
R-squared		0.00	0.40	0.02	0.00	0.10	0.00	0.01	0.04	0.00	0.01	0.07	0.01
Observations		9,872	9,872	9,489	9,872	9,872	9,489	9,802	9,802	9,425	9,868	9,868	9,486
Impacts on Women													
Violent Crime Victim	Current Year	-0.055 (0.050)	-0.172** (0.041)	0.011 (0.037)	0.090 (0.150)	0.033 (0.145)	0.023 (0.222)	-17.729** (2.584)	-16.833** (2.608)	-9.290** (1.949)	-1.126** (0.291)	-1.008** (0.286)	-0.722** (0.191)
	One Year Ago	-0.042 (0.050)	-0.176** (0.045)	0.026 (0.038)	0.218+ (0.113)	0.102 (0.111)	0.065 (0.230)	-11.282** (2.746)	-10.724** (2.868)	-5.772** (2.024)	-0.736** (0.264)	-0.650* (0.261)	-0.334+ (0.198)
	Two + Years Ago	0.013 (0.063)	-0.115* (0.048)	0.024 (0.042)	0.186+ (0.108)	-0.010 (0.100)	-0.152 (0.254)	-9.909** (2.830)	-9.191** (2.861)	-3.210 (2.215)	-0.682** (0.216)	-0.518* (0.221)	-0.452* (0.219)
Property Crime Victim	Current Year	0.049+ (0.025)	-0.014 (0.020)	0.005 (0.016)	-0.025 (0.089)	-0.073 (0.088)	-0.128 (0.094)	-3.231** (1.029)	-2.949** (1.020)	-0.646 (0.816)	-0.362** (0.094)	-0.305** (0.093)	0.067 (0.081)
	One Year Ago	0.087** (0.027)	0.026 (0.022)	-0.002 (0.017)	0.259** (0.083)	0.165* (0.079)	-0.079 (0.102)	1.125 (0.938)	1.127 (0.927)	1.393 (0.882)	-0.181* (0.091)	-0.156+ (0.091)	0.066 (0.088)
	Two + Years Ago	0.112** (0.034)	0.013 (0.027)	-0.009 (0.020)	0.254** (0.094)	0.088 (0.090)	-0.143 (0.120)	-1.512 (1.156)	-1.577 (1.155)	-0.099 (1.042)	-0.253* (0.099)	-0.151 (0.100)	0.235* (0.104)
R-squared		0.00	0.39	0.01	0.00	0.06	0.00	0.02	0.05	0.01	0.01	0.06	0.01
Observations		11,058	11,058	10,673	11,058	11,058	10,673	10,988	10,988	10,607	11,055	11,055	10,671

Notes: The first specification does not include any additional covariates. The second specification includes controls for a quadratic in age, ethnicity, immigration status, education, location and remoteness. The third specification includes individual fixed effects in addition to the time-varying covariates in the second specification. Standard errors are in parentheses. ** 1% Significance, * 5% Significance, + 10% Significance

Table 6: Fixed Effects Estimate of Impact of Victimization on Labour Market Outcomes and General Wellbeing of 18-44 Year-Olds

		Currently Employed	Receives Benefit	Log Labour	Log Non- Lab	Log Total Income	Log Hhold Income	Married/De Facto	General Health	Mental Health	# Alcoholic Drinks	Life Satisfaction	Satisfaction with Family
Impacts on Men													
Violent Crime Victim	Current Year	-0.004 (0.023)	-0.030 (0.024)	-0.060 (0.238)	-0.271 (0.293)	-0.110 (0.105)	-0.054 (0.046)	-0.021 (0.022)	0.565 (1.075)	-1.232 (1.124)	7.130* (3.146)	-0.220* (0.104)	-0.386** (0.128)
	One Year Ago	-0.046+ (0.026)	0.006 (0.027)	-0.376 (0.263)	0.058 (0.324)	-0.108 (0.116)	-0.086+ (0.051)	-0.006 (0.024)	2.156+ (1.186)	1.078 (1.241)	0.983 (3.476)	-0.216+ (0.115)	-0.347* (0.141)
	Two + Years Ago	-0.079** (0.030)	-0.003 (0.031)	0.080 (0.304)	-0.454 (0.374)	-0.183 (0.134)	-0.045 (0.058)	-0.022 (0.028)	2.886* (1.369)	0.898 (1.433)	7.320+ (4.021)	-0.166 (0.133)	-0.150 (0.162)
Property Crime Victim	Current Year	0.005 (0.013)	-0.030* (0.014)	-0.155 (0.134)	-0.203 (0.165)	-0.017 (0.059)	0.056* (0.026)	0.005 (0.012)	-0.221 (0.606)	0.275 (0.634)	-0.601 (1.785)	-0.154** (0.059)	0.142+ (0.072)
	One Year Ago	0.000 (0.015)	-0.023 (0.015)	-0.086 (0.150)	-0.097 (0.185)	-0.132* (0.066)	0.053+ (0.029)	0.000 (0.014)	0.283 (0.677)	0.597 (0.709)	-3.395+ (1.991)	0.011 (0.065)	0.042 (0.080)
	Two + Years Ago	0.020 (0.018)	-0.043* (0.019)	-0.355+ (0.184)	-0.213 (0.227)	-0.148+ (0.081)	0.042 (0.035)	0.015 (0.017)	0.326 (0.831)	0.812 (0.869)	-7.124** (2.443)	0.024 (0.080)	0.182+ (0.099)
Observations		9,475	9,475	9,475	9,475	9,475	9,446	9,475	9,422	9,449	9,400	9,472	9,319
Impacts on Women													
Violent Crime Victim	Current Year	0.054+ (0.030)	-0.026 (0.029)	0.031 (0.251)	-0.316 (0.251)	-0.062 (0.101)	-0.029 (0.046)	-0.121** (0.021)	-1.783 (1.098)	-1.668 (1.152)	-0.332 (1.725)	-0.157 (0.102)	-0.596** (0.117)
	One Year Ago	0.040 (0.032)	0.034 (0.031)	-0.300 (0.270)	-0.139 (0.270)	-0.036 (0.108)	-0.074 (0.049)	-0.079** (0.022)	-1.824 (1.181)	2.527* (1.245)	-2.241 (1.868)	-0.002 (0.109)	0.060 (0.126)
	Two + Years Ago	0.026 (0.037)	-0.029 (0.035)	-0.470 (0.308)	-0.366 (0.309)	-0.141 (0.124)	0.037 (0.056)	-0.097** (0.026)	-1.834 (1.352)	2.109 (1.416)	-1.777 (2.128)	0.304* (0.125)	-0.230 (0.144)
Property Crime Victim	Current Year	-0.022 (0.017)	-0.010 (0.016)	-0.280* (0.143)	-0.156 (0.143)	-0.043 (0.057)	-0.016 (0.026)	0.005 (0.012)	-0.761 (0.626)	-0.231 (0.653)	1.298 (0.985)	-0.159** (0.058)	-0.034 (0.066)
	One Year Ago	-0.026 (0.019)	-0.020 (0.018)	-0.134 (0.158)	-0.073 (0.158)	-0.070 (0.063)	-0.021 (0.029)	-0.001 (0.013)	-0.812 (0.691)	-0.631 (0.723)	-0.154 (1.092)	-0.033 (0.064)	-0.114 (0.073)
	Two + Years Ago	-0.064** (0.023)	-0.021 (0.022)	-0.243 (0.187)	-0.120 (0.187)	-0.109 (0.075)	-0.049 (0.034)	0.006 (0.016)	-0.541 (0.822)	0.128 (0.858)	1.875 (1.297)	-0.082 (0.076)	-0.018 (0.087)
Observations		11,094	11,094	11,094	11,094	11,094	11,070	11,094	11,006	11,069	11,023	11,092	10,992

Notes: All income measures are real values. Each regression includes controls for a quadratic in age, education, location, remoteness and individual fixed effects. Standard errors are in parentheses. ** 1% Significance, * 5% Significance, + 10% Significance

Table 7: Fixed Effects Estimate of Impact of Victimization on Labour Market Outcomes and General Wellbeing of 45+ Year-Olds

	Currently Employed	Receives Benefit	Log Labour	Log Non-Lab	Log Total Income	Log Hhold Income	Married/De Facto	General Health	Mental Health	# Alcoholic Drinks	Life Satisfaction	Satisfaction with Family	
Impacts on Men													
Violent Crime Victim	Current Year	-0.100** (0.035)	0.020 (0.033)	-0.553 (0.389)	0.507 (0.385)	0.245 (0.200)	0.041 (0.084)	-0.032 (0.023)	-2.699 (1.778)	-4.953** (1.687)	4.257 (4.609)	-0.774** (0.172)	-0.446* (0.214)
	One Year Ago	-0.123** (0.039)	0.012 (0.037)	-0.830+ (0.431)	0.439 (0.427)	0.067 (0.221)	0.056 (0.092)	0.000 (0.025)	-0.997 (1.951)	-4.466* (1.866)	-3.664 (5.098)	0.056 (0.191)	0.131 (0.240)
	Two + Years Ago	-0.058 (0.043)	0.051 (0.041)	-0.481 (0.479)	0.403 (0.474)	0.450+ (0.246)	0.201* (0.102)	0.030 (0.028)	-2.173 (2.182)	-1.902 (2.079)	3.228 (5.681)	-0.215 (0.211)	-0.028 (0.258)
Property Crime Victim	Current Year	0.024 (0.015)	-0.005 (0.015)	-0.233 (0.170)	0.389* (0.168)	0.004 (0.087)	-0.001 (0.036)	0.030** (0.010)	-0.398 (0.764)	1.131 (0.737)	-0.443 (2.015)	0.105 (0.074)	-0.149 (0.093)
	One Year Ago	0.023 (0.016)	0.013 (0.015)	0.187 (0.178)	0.407* (0.176)	0.096 (0.091)	0.021 (0.038)	0.032** (0.010)	0.451 (0.800)	0.716 (0.772)	4.146+ (2.117)	0.175* (0.078)	-0.199* (0.097)
	Two + Years Ago	0.012 (0.019)	-0.003 (0.018)	0.190 (0.210)	0.112 (0.208)	-0.027 (0.108)	0.049 (0.045)	0.023+ (0.012)	1.390 (0.948)	0.858 (0.912)	4.169+ (2.503)	0.006 (0.092)	-0.042 (0.114)
Observations	9,489	9,489	9,489	9,489	9,489	9,444	9,489	9,276	9,425	9,361	9,486	9,072	
Impacts on Women													
Violent Crime Victim	Current Year	0.011 (0.037)	0.047 (0.035)	0.115 (0.342)	0.180 (0.370)	0.023 (0.222)	-0.165+ (0.085)	-0.183** (0.023)	-2.805 (2.001)	-9.290** (1.949)	6.255* (2.609)	-0.722** (0.191)	-0.502* (0.218)
	One Year Ago	0.026 (0.038)	0.070+ (0.036)	-0.359 (0.354)	0.564 (0.384)	0.065 (0.230)	-0.176* (0.088)	-0.147** (0.024)	-3.040 (2.040)	-5.772** (2.024)	2.718 (2.769)	-0.334+ (0.198)	-0.353 (0.226)
	Two + Years Ago	0.024 (0.042)	-0.011 (0.040)	0.110 (0.392)	-0.916* (0.425)	-0.152 (0.254)	-0.173+ (0.097)	-0.108** (0.026)	-1.671 (2.315)	-3.210 (2.215)	-1.037 (2.992)	-0.452* (0.219)	-0.171 (0.250)
Property Crime Victim	Current Year	0.005 (0.016)	-0.008 (0.015)	-0.132 (0.145)	-0.242 (0.157)	-0.128 (0.094)	-0.049 (0.036)	0.006 (0.010)	0.754 (0.809)	-0.646 (0.816)	-0.335 (1.117)	0.067 (0.081)	-0.061 (0.094)
	One Year Ago	-0.002 (0.017)	-0.005 (0.016)	-0.257 (0.157)	-0.134 (0.170)	-0.079 (0.102)	0.012 (0.039)	0.015 (0.011)	0.010 (0.877)	1.393 (0.882)	-0.435 (1.212)	0.066 (0.088)	-0.017 (0.102)
	Two + Years Ago	-0.009 (0.020)	0.009 (0.019)	-0.398* (0.186)	-0.269 (0.201)	-0.143 (0.120)	-0.076+ (0.046)	0.021+ (0.012)	1.010 (1.037)	-0.099 (1.042)	1.600 (1.419)	0.235* (0.104)	-0.006 (0.120)
Observations	10,673	10,673	10,673	10,673	10,673	10,621	10,673	10,370	10,607	10,401	10,671	10,221	

Notes: All income measures are real values. Each regression includes controls for a quadratic in age, education, location, remoteness and individual fixed effects. Standard errors are in parentheses. ** 1% Significance, * 5% Significance, + 10% Significance

Summary of Results (1)

- ❖ Strong employment effects from violent victimisation among men, not among women;
- ❖ Timing of employment effects vary among younger and older men;
- ❖ Evidence of negative selection among younger female victims of violent crime in terms of their mental health outcomes;
- ❖ Causal effects of violent victimisation on mental health of older men and women for 2 years after violent victimisation, not among younger individuals

Summary of Results (2)

- ❖ Lowered life satisfaction following crime victimisation but not persistent;
- ❖ Strong, negative and persistent effects of violent victimisation on marriage/co-habitation probabilities for women but not for men;
- ❖ Little impact of property crime victimisation on most outcomes considered.