Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Mental disorder diagnostic categories (ICD-10 and ICD-8 codes)

Diagnostic category	ICD-10 codes	Equivalent ICD-8 codes
1. Organic disorders		
Organic, including symptomatic, mental disorders	F00-F09	290.09, 290.10, 290.11, 290.18, 290.19, 292.x9, 293.x9, 294.x9, 309.x9
2. Substance use disorders		
Mental and behavioral disorders due psychoactive substance use	F10-F19	291.x9, 294.39, 303.x9, 303.20, 303.28, 303.90, 304.x9
3. Schizophrenia		
Schizophrenia and related disorders	F20-F29	295.x9, 296.89, 297.x9, 298.29-298.99, 299.04, 299.05, 299.09, 301.83
4. Mood disorder		
Mood disorders	F30-F39	296.x9 (excl 296.89), 298.09, 298.19, 300.49, 301.19
5. Neurotic disorders		
Neurotic, stress-related, and somatoform disorders, and eating	F40-F48, F50	300.x9 (excl 300.49), 305.x9 305.68, 307.99, 305.60, 306.50, 306.58, 306.59
disorders		
6. Personality disorders		
Personality disorders	F60	301.x9 (excl 301.19), 301.80, 301.81, 301.82, 301.84
7. Intellectual disability		
Intellectual disability	F70-F79	311.xx, 312.xx, 313.xx, 314.xx, 315.xx
8. Developmental disorders		
Pervasive developmental disorders and behavioural/emotional disorders with onset usually occurring in childhood and	F84, F90-F98	299.00, 299.01, 299.02, 299.03, 306.x9, 308.0x
adolescence		
9. Any mental disorder		
3.7 my memarationaet	F00-F99	290-315

eTable 2. Incidence of first subjection to crime (violent offense) by covariates, among those with and without mental disorder

		No mental disorder		Any mental disorder	
		Cases/person-years	Incidence rate (per 1000 person years)	Cases/person-years	Incidence rate (per 1000 person years)
Totals	sample	98,250/19,656,536	5.00	17982/1551182	11.59
Sex	Female Male	33,059/9,618,531 65,191/10,038,005	3.44 6.49	8414/856666 9568/694516	9.82 13.78
Father	Unknown Known	981/134,314 97,269/19,522,222	7.30 4.98	307/19262 17675/1531920	15.94 11.54
Perpetrator	Yes No	12,503/971,045 85,747/18,685,491	12.88 4.59	5355/235531 12627/1315651	22.74 9.60
Paternal income	1 st quartile 2 nd quartile 3 rd quartile 4 th quartile Unknown	24,619/5,181,046 23,289/5,350,391 25,565/4,659,771 20,602/3,837,905 4,175/627,423	4.75 4.35 5.49 5.37 6.65	6370/501390 4376/405389 3726/329928 2297/232410 1213/82064	12.70 10.79 11.29 9.88 14.78
Maternal education	Primary Secondary Tertiary Unknown	38,560/708,696 34,056/6,837,349 20,168/4,362,468 5,466/1,370,623	5.44 4.98 4.62 3.99	8756/642104 5351/488604 2494/2977917 1381/122557	13.64 10.95 8.37 11.27

eTable 3. Incidence rate ratio of first subjection to crime (any crime and violent offense) with adjustment by covariate combinations, among those with mental disorder compared to those without mental disorder

		Any crime	Violent crime
Covariates included in each model*		Incident rate ratio (95% CI)	Incident rate ratio (95% CI)
Basic model	Men	1.69 (1.66-1.72)	2.25 (2.20-2.30)
	Women	1.72 (1.69-1.74)	3.14 (3.06-3.21)
Adjusted for own criminality	Men	1.49 (1.46-1.52)	1.83 (1.79-1.87)
	Women	1.64 (1.61-1.66)	2.81 (2.74-2.88)
Adjusted for own criminality, father's income	Men	1.48 (1.46-1.51)	1.77 (1.74-1.81)
	Women	1.63 (1.61-1.66)	2.74 (2.67-2.81)
Adjusted for own criminality, mother's education	Men	1.49 (1.47-1.52)	1.80 (1.76-1.84)
	Women	1.64 (1.62-1.67)	2.77 (2.70-2.84)
Adjust for own criminality and both father's income and mother's education	Men	1.49 (1.46-1.51)	1.76 (1.72-1.80)
	Women	1.64 (1.61-1.66)	2.72 (2.65-2.79)

^{*}Each model (including the basic model) is adjusted for age, calendar period and having an unknown father

eTable 4. Incidence rate ratios (IRR) for first subjection to crime, by type of crime, for those with and without any mental disorder (men)

Cases/person-years	Incidence rate (per 1000 person years) ^b	Adjusted IRR (95% CI) ^c
55,027/10,210,663	5.39	1.00 Reference
5,305/751,210	7.06	1.20 (1.17,1.23)
40,001/10,210,952	3.92	1 .00 Reference
5,640/731,987	7.71	1.68 (1.63 – 1.73)
9,490/1,0430,934	0.91	1.00 Reference
2,154/768,884	2.80	2.13 (2.03, 2.24)
10,903/10,418,126	1.05	1.00 Reference
1,957/770,263	2.54	2.12 (2.02, 2.23)
7,719/10,445,975	0.74	1 .00 Reference
1,881/772,849	2.43	2.06 (1.96, 2.18)
	55,027/10,210,663 5,305/751,210 40,001/10,210,952 5,640/731,987 9,490/1,0430,934 2,154/768,884 10,903/10,418,126 1,957/770,263 7,719/10,445,975	years) ^b 55,027/10,210,663 5,305/751,210 40,001/10,210,952 5,640/731,987 3.92 7.71 9,490/1,0430,934 2,154/768,884 10,903/10,418,126 1,957/770,263 7,719/10,445,975 0.74

a: Five most frequent types of crime reported

b: Unadjusted rate per 1000 person-years
c: Adjusted for age, calendar year, maternal education, paternal income, paternal identity unknown, and cohort member's own criminal offending

eTable 5. Incidence rate ratios (IRR) for first subjection to crime, by type of crime, for those with and without any mental disorder (women)

Crime category ^a	Cases/person-years	Incidence rate (per 1000 person years) ^b	Adjusted IRR (95% CI) ^c
<u>Thefts</u>			
No mental disorder	94,465/9,357,337	10.10	1.00 Reference
Any mental disorder	12,037/860,395	13.99	1.27 (1.25,1.30)
Simple violence			
No mental disorder	14,836/9,763,905	1.52	1 .00 Reference
Any mental disorder	4,981/900,014	5.53	3.30 (3.19, 3.41)
<u>Threats</u>			
No mental disorder	6,903/9,814,889	0.70	1.00 Reference
Any mental disorder	2,381/923,610	2.58	3.04 (2.89, 3.19)
Robberies			
No mental disorder	2,267/9,843,217	0.23	1.00 Reference
Any mental disorder	565/937,347	0.60	2.47 (2.24, 2.72)
Severe violence			
No mental disorder	1,450/9,848,236	0.14	1 .00 Reference
Any mental disorder	703/936,818	0.75	3.61 (3.28, 3.97)

a: Five most frequent types of crime reported

b: Unadjusted rate per 1000 person-years
c: Adjusted for age, calendar year, maternal education, paternal income, paternal identity unknown, and cohort member's own criminal offending