

Supplementary table 1. Baseline characteristics included and excluded individuals

	Included n(%)	Excluded n(%)	P- value
Total	339 403 (71.9)	132 768 (28.1)	
Sex			<0.001
Male	179 809 (53.0)	60 445 (45.5)	
Female	159 594 (47.0)	72 323 (54.5)	
Country of birth			<0.001
Sweden	323 820 (95.4)	68 333 (51.5)	
Outside of Sweden	15 583 (4.6)	64 435 (48.5)	
Birth year			<0.001
1973	89 366 (26.3)	32 349 (24.4)	
1974	89 387 (26.3)	33 141 (25.0)	
1975	82 650 (24.4)	34 012 (25.6)	
1976	78 000 (23.0)	33 266 (25.1)	
Age at baseline (mean±SD)	24.2 ± 3.5	24.8 ± 3.7	

Education			<0.001
Primary	26 352 (7.8)	13 214 (10.0)	
Secondary	182 668 (53.8)	46 161 (34.8)	
University	130 383 (38.4)	43 435 (32.7)	
Missing	0 (0)	29 958 (22.6)	
Prior psychiatric diagnosis			0.201
Yes	9808 (2.9)	3929 (3.0)	
No	329 595 (97.1)	128 839 (97.0)	
Parental education			<0.001
Primary	52 883 (15.6)	8172 (6.2)	
Secondary	169 909 (50.1)	28 249 (21.3)	
University	116 611 (34.4)	28 639 (21.6)	
Missing	0	67 708 (51.0)	
Parental SES			<0.001
Non-manual	182 474 (53.8)	41 748 (31.4)	
Manual	119 614 (35.2)	21 269 (16.0)	

Self-employed/farmer	14 190 (4.2)	2509 (1.9)
Not classified	23 125 (6.8)	67 242 (50.7)

SES: socioeconomic status

Supplementary Table 2. Crude and adjusted HRs and 95% CI for the association between labour market position in early adulthood and later mental health problems requiring inpatient care, excluding individuals with prior mental health problems (n =9808).

	SER HR (95% CI)	PER HR (95% CI)	Long-term unemployed HR (95% CI)	SSER HR (95% CI)	Other HR (95% CI)
Crude	1.00	1.50 (1.41, 1.60)	2.01 (1.88, 2.14)	1.13 (1.07, 1.19)	1.95 (1.84, 2.08)
Model 1	1.00	1.50 (1.41, 1.60)	2.08 (1.88, 2.14)	1.13 (1.07, 1.19)	1.95 (1.84, 2.08)
Model 2	1.00	1.50 (1.41, 1.60)	1.97 (1.85, 2.11)	1.13 (1.07, 1.19)	1.93 (1.81, 2.05)

Model 1: Adjusted for sex (total only), country of birth, year of birth, age at baseline, highest levels of own education.

Model 2: Additional adjustment for highest level of parents' educational attainment and socioeconomic status.

SER: Standard employment relation, PER: precarious employment relation, SSER: sub-standard employment relation

Supplementary Table 3. Crude and adjusted HRs and 95% CI for the association between labour market position in early adulthood and later mental disorders requiring inpatient care, re-categorized individuals with any unemployment from the precarious employment group (n= 25 718) into the group ‘other’

	SER HR (95% CI)	PER HR (95% CI)	Long-term unemployed HR (95% CI)	SSER HR (95% CI)	Other HR (95% CI)
Crude	1.00	1.48 (1.35, 1.62)	2.29 (2.15, 2.43)	1.19 (1.13, 1.25)	2.39 (2.28, 2.51)
Model 1	1.00	1.29 (1.18, 1.42)	2.03 (1.91, 2.16)	1.14 (1.08, 1.20)	1.89 (1.80, 1.99)
Model 2	1.00	1.27 (1.16, 1.39)	1.98 (1.86, 2.11)	1.13 (1.08, 1.19)	1.78 (1.69, 1.88)
Model 3	1.00	1.28 (1.17, 1.40)	1.95 (1.83, 2.07)	1.13 (1.08, 1.19)	1.77 (1.68, 1.86)

Model 1: Adjusted for sex, country of birth, year of birth, age at baseline, highest levels of own education.

Model 2: Additional adjustment for prior mental health problems requiring inpatient care.

Model 3: Additional adjustment for highest level of parents’ educational attainment and socioeconomic status.

SER: Standard employment relation, PER: precarious employment relation, SSER: sub-standard employment relation

Supplementary Table 4. Crude and adjusted HRs and 95% CI for the association between labour market position in early adulthood and later mental disorders requiring inpatient care, excluding individuals with missing information on the year of exam (n =25 053).

	SER HR (95% CI)	PER HR (95% CI)	Long-term unemployed HR (95% CI)	SSER HR (95% CI)	Other HR (95% CI)
Crude	1.00	1.77 (1.67, 1.72)	2.29 (2.15, 2.43)	1.19 (1.13, 1.25)	2.78 (2.63, 2.94)
Model 1	1.00	1.54 (1.45, 1.63)	2.04 (1.91, 2.16)	1.14 (1.08, 1.20)	2.06 (1.94, 2.18)
Model 2	1.00	1.51 (1.42, 1.60)	1.98 (1.07, 1.19)	1.13 (1.07, 1.19)	1.88 (1.78, 2.00)
Model 3	1.00	1.51 (1.42, 1.60)	1.95 (1.83, 2.08)	1.13 (1.08, 1.19)	1.86 (1.77, 1.98)

Model 1: Adjusted for sex (total only), country of birth, year of birth, age at baseline, highest levels of own education.

Model 2: Additional adjustment for prior mental health problems requiring inpatient care.

Model 3: Additional adjustment for highest level of parents' educational attainment and socioeconomic status.

SER: Standard employment relation, PER: precarious employment relation, SSER: sub-standard employment relation.