

Supplementary table 1. Baseline characteristics included and excluded individuals

	Included	Excluded	P- value
	%	%	
Total	71.9	28.1	
Sex			<0.001
Male	53.0	45.5	
Female	47.0	54.5	
Country of birth			<0.001
Sweden	95.4	51.5	
Outside of Sweden	4.6	48.5	
Birth year			<0.001
1973	26.3	24.3	
1974	26.3	25.0	
1975	24.4	25.6	
1976	23.0	25.1	
Age at baseline (mean±SD)	24.2 ± 3.5	24.8 ± 3.7	
Education			<0.001
Primary	7.8	10.0	
Secondary	53.8	34.8	
University	38.4	32.7	

Missing	0	22.6	
Prior mental health problems	2.9	3.0	0.201
Prior alcohol-related health problems	0.3	0.5	<0.001
Parental education			<0.001
Primary	15.6	6.2	
Secondary	50.1	21.3	
University	34.4	21.6	
Missing	0	51.0	
Parental SES			<0.001
Non-manual	53.8	31.4	
Manual	35.2	16.0	
Self-employed/farmer	4.2	1.9	
Not classified	6.8	50.7	

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SES: socioeconomic status

Supplementary Table 2. Crude and adjusted HRs and 95% CI for the association between labour market position in young adulthood and later alcohol-related morbidity, excluding individuals with previous mental and alcohol-related health problems (n =10 176).

	PER HR (95%CI)	Long-term unemployed HR (95%CI)	SSER HR (95%CI)	SER HR (95%CI)	Other HR (95%CI)
Crude	1.62 (1.49, 1.77)	2.55 (2.35, 2.77)	1.19 (1.11, 1.27)	1.00	2.48 (1.11, 1.27)
Model 1	1.37 (1.30, 1.49)	2.00 (1.84, 2.18)	1.12 (1.04, 1.20)	1.00	1.78 (1.64, 1.94)
Model 2	1.38 (1.27, 1.50)	1.96 (1.80, 2.13)	1.12 (1.05, 1.21)	1.00	1.76 (1.62, 1.92)

PER: Precarious employment relation, SSER: sub-standard employment relation, SER: standard employment relation, Other: self-employed, not registered as employed, or student

Model 1: Adjusted for sex, 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.

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

	PER HR (95%CI)	Long-term unemployed HR (95%CI)	SSER HR (95%CI)	SER HR (95%CI)	Other HR (95%CI)
Crude	1.42 (1.26, 1.61)	2.71 (2.51, 2.92)	1.24 (1.16, 1.32)	1.00	2.47 (2.32, 2.64)
Model 1	1.29 (1.12, 1.45)	2.10 (1.94, 2.27)	1.17 (1.09, 1.25)	1.00	1.80 (1.68, 1.93)
Model 2	1.23 (1.08, 1.39)	2.00 (1.85, 2.16)	1.15 (1.07, 1.23)	1.00	1.60 (1.49, 1.71)
Model 3	1.25 (1.10, 1.42)	1.95 (1.80, 2.11)	1.15 (1.07, 1.23)	1.00	1.60 (1.49, 1.71)

PER: Precarious employment relation, SSER: sub-standard employment relation, SER: standard employment relation, Other: self-employed, not registered as employed, or student

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 and alcohol-related health problems requiring inpatient care.

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

Supplementary Table 4. Crude and adjusted HRs and 95% CI for the association between labour market establishment at a young age and later alcohol-related morbidity, excluding individuals with missing information on the year of exam (n =24 512).

	PER HR (95%CI)	Long-term unemployed HR (95%CI)	SSER HR (95%CI)	SER HR (95%CI)	Other HR (95%CI)
Crude	1.42 (1.24, 1.62)	2.65 (2.44, 2.88)	1.28 (1.19, 1.37)	1.00	2.45 (2.28, 2.63)
Model 1	1.27 (1.11, 1.45)	2.11 (1.94, 2.29)	1.19 (1.11, 1.28)	1.00	1.84 (1.71, 1.98)
Model 2	1.22 (1.07, 1.40)	1.99 (1.83, 2.16)	1.18 (1.10, 1.26)	1.00	1.68 (1.56, 1.81)
Model 3	1.24 (1.09, 1.42)	1.94 (1.78, 2.11)	1.18 (1.10, 1.27)	1.00	1.67 (1.55, 1.80)

PER: Precarious employment relation, SSER: sub-standard employment relation, SER: standard employment relation, Other: self-employed, not registered as employed, or student

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 and alcohol-related health problems requiring inpatient care.

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