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Supplementary Material

Article Title: Survival Probabilities and Predictors of Major Depressive Episode Incidence Among Individuals With Various Types of Substance Use Disorders

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List of Supplementary Material for the article

1. [Table 1](#) Univariate analysis of sociodemographic and clinical predictors of a major depressive episode in individuals with substance use disorders

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Supplementary Table 1: Univariate analysis of sociodemographic and clinical predictors of a major depressive episode in individuals with substance use disorders.

Characteristics	Alcohol use disorder (n=5,987) HR (95%CI)	Cannabis use disorder (n=1,353) HR (95%CI)	Opioid use disorder (n=351) HR (95%CI)	Stimulant use disorder (n=827) HR (95%CI)	Nicotine use disorder (n=3,563) HR (95%CI)
Age at time of interview	0.96 (0.96-0.97)	0.96 (0.95-0.96)	0.96 (0.94-0.98)	0.96 (0.95-0.98)	0.97 (0.96-0.97)
Substance use disorder age at onset	0.98 (0.97-0.99)	0.96 (0.94-0.99)	0.98 (0.96-1.01)	0.98 (0.95-1.01)	0.99 (0.98-0.99)
Number of use disorder criteria when diagnosed	1.10 (1.08-1.13)	1.14 (1.09-1.20)	1.11 (1.02-1.21)	1.11 (1.05-1.17)	1.17 (1.14-1.21)
Achieving remission prior to MDE	0.28 (0.24-0.33)	0.23 (0.19-0.28)	0.25 (0.15-0.40)	0.45 (0.35-0.60)	0.29 (0.25-0.33)
Female	2.06 (1.77-2.40)	1.55 (1.22-1.97)	1.31 (0.82-2.09)	1.81 (1.31-2.51)	1.94 (1.68-2.25)
Ethnicity: White	1.06 (0.92-1.21)	1.10 (0.88-1.39)	1.37 (0.89-2.11)	0.81 (0.61-1.09)	0.97 (0.84-1.11)
Marital status:					
Married for the duration of follow up period	1.00 (1.00-1.00)	1.00 (1.00-1.00)	1.00 (1.00-1.00)	1.00 (1.00-1.00)	1.00 (1.00-1.00)
Never married	1.69 (1.18-2.41)	2.82 (0.70-11.28)	2.94 (1.18-7.34)	6.78 (2.00-23.01)	2.13 (1.61-2.83)
Other (Separated/divorced or married during follow up)	2.38 (1.64- 3.46)	3.62 (0.88-14.84)	3.82 (1.48-9.97)	7.43 (2.06-26.88)	1.70 (1.34-2.15)
Number of weeks unemployed	1.00 (1.00-1.001)	1.00 (1.00-1.00)	1.00 (0.99-1.00)	1.00 (1.00-1.00)	1.00 (1.00-1.00)
Education	0.99 (0.97-1.02)	0.97 (0.92-1.02)	1.10 (1.00-1.21)	0.99 (0.93-1.06)	0.99 (0.97-1.02)
Family history of AUD/SUD	1.65 (1.44-1.88)	1.60 (1.30-1.97)	2.07 (1.26-3.40)	1.72 (1.29-2.31)	1.69 (1.48-1.93)
Family history of MDD	3.08 (2.61-3.63)	2.68 (2.10-3.42)	2.81 (1.77-4.46)	2.71 (2.01-3.66)	2.98 (2.55-3.48)
Borderline personality disorder	3.11 (2.69-3.59)	2.66 (2.17-3.27)	2.19 (1.40-3.42)	2.12 (1.63-2.77)	3.10 (2.70-3.56)
Schizotypal personality disorder	2.75 (2.28-3.31)	1.87 (1.42-2.46)	1.52 (0.87-2.66)	2.03 (1.44-2.87)	2.89 (2.43-3.44)
Antisocial personality disorder	2.07 (1.66-2.58)	1.72 (1.30-2.28)	1.21 (0.66-2.23)	1.62 (1.16-2.26)	1.85 (1.52-2.25)
The presence of one anxiety disorders	2.63 (2.31-3.00)	2.25 (1.79-2.83)	1.66 (1.02-2.70)	1.97 (1.45-2.69)	2.42 (2.11-2.77)
The presence of two anxiety disorders	3.70 (3.00-4.57)	2.37 (1.70-3.31)	2.67 (1.52-4.68)	3.44 (2.28-5.20)	3.70 (3.03-4.50)
The presence of three anxiety disorders	3.62 (2.56-5.13)	2.85 (1.86-4.35)	1.67 (0.27-10.40)	2.60 (1.19-5.68)	4.14 (2.57-6.67)
The presence of four anxiety disorders	4.14 (2.57-6.67)	5.14 (2.41-10.94)	4.69 (2.05-10.72)	4.32 (1.74-10.74)	4.44 (3.31-5.95)
The presence of five anxiety disorders	8.59 (5.52-13.37)	3.55 (3.06-4.10)	3.23 (0.31-33.66)	4.00 (2.92-5.46)	3.97 (2.80-5.62)
					7.36 (4.97-10.91)

Lifetime bipolar disorder	2.82 (2.21-3.62)	2.92 (2.06-4.15)	1.65 (0.80-3.42)	3.32 (2.15-5.13)	3.04 (2.33-3.98)
Lifetime PTSD	2.98 (2.50-3.56)	2.39 (1.82-3.14)	2.53 (1.59-4.02)	2.72 (2.09-3.54)	2.82 (2.36-3.37)
Lifetime alcohol use disorder		1.11 (0.81-1.51)	1.25 (0.72-2.19)	1.14 (0.76-1.72)	1.49 (1.29-1.71)
Lifetime cannabis use disorder	1.81 (1.54-2.13)		1.67 (1.09-2.56)	1.17 (0.91-1.51)	1.78 (1.50-2.11)
Lifetime opioid use disorder	2.07 (1.71-2.50)	1.63 (1.18-2.24)		1.17 (0.82-1.66)	1.95 (1.57-2.43)
Lifetime stimulant use disorder	0.46 (0.37-0.58)*	1.13 (0.89-1.44)	1.16 (0.80-1.67)		1.99 (1.58-2.51)
Lifetime nicotine use disorder	1.35 (1.20-1.51)	1.48 (1.16-1.89)	1.37 (0.83-2.28)	1.34 (0.93-1.94)	
Childhood adversities	1.03 (1.02-1.03)	1.02 (1.02-1.03)	1.02 (0.99-1.03)	1.02 (1.01-1.03)	1.02 (1.02-1.03)

HR: hazard ratio; CI: confidence interval; MDE: major depressive episode; AUD: alcohol use disorder; SUD: substance use disorder; MDD: major depressive disorder; PTSD: post-traumatic stress disorder. ^a: education was evaluated as a continuous variable. *: interaction with time. Bold: statistically significant: p<0.05