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## **Supplementary Material**

- Article Title: A Risk Algorithm for the Persistence of Suicidal Thoughts and Behaviors During College
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Supplementary eTable 1. Multivariate individual-level associations between risk factors under study and adverse clinical patterns of STB during follow-up.

	<u>MULTIVARIATE</u> MODEL 1ª		MULTIVARIATE MODEL 2ª		<u>MULTIVARIATE</u> MODEL 3 <sup>a</sup>		<u>MULTIVARIATE</u> MODEL 4 <sup>a</sup>		<u>MULTIVARIATE</u> MODEL 5ª	
	<u>One-time</u> STB <sup>b</sup>	<u>Two-time</u> STB <sup>b</sup>	<u>One-time</u> STB <sup>b</sup>	<u>Two-time</u> STB <sup>b</sup>	<u>One-time</u> STB <sup>b</sup>	<u>Two-time</u> STB <sup>b</sup>	<u>One-time</u> STB <sup>b</sup>	<u>Two-time</u> STB <sup>b</sup>	<u>One-time</u> STB <sup>b</sup>	<u>Two-time</u> STB <sup>b</sup>
		OR (95%CI)								
I. Socio-demographic variables				· <u> </u>		· <u> </u>		· · · · · ·		
Being male	1.6 (0.9-3.0)	1.3 (0.7-2.6)	1.7 (0.9-3.3)	1.7 (0.8-3.3)	1.7 (0.8-3.6)	1.5 (0.7-3.3)	1.7 (0.8-3.9)	1.9 (0.7-4.9)	1.7 (0.7-3.9)	2.0 (0.7-6.0)
Age > 18 years	1.4 (0.7-2.7)	2.6* (1.3-5.4)	1.5 (0.7-2.9)	2.5* (1.2-5.2)	1.5 (0.8-3.2)	2.4* (1.1-5.5)	1.5 (0.7-3.2)	2.3 (0.9-5.6)	1.5 (0.6-3.3)	2.3 (0.8-6.7)
Non-Belgian nationality	0.9 (0.3-2.7)	0.6 (0.2-2.2)	0.8 (0.3-2.3)	0.5 (0.1-2.0)	0.7 (0.2-2.4)	0.5 (0.1-2.1)	0.7 (0.2-2.5)	0.5 (0.1-2.8)	0.7 (0.2-2.8)	0.6 (0.1-4.9)
Parents' financial situation difficult	0.9 (0.4-1.8)	0.7 (0.3-1.7)	0.8 (0.4-1.7)	0.6 (0.3-1.6)	0.7 (0.3-1.7)	0.6 (0.2-1.8)	0.7 (0.3-1.8)	0.5 (0.2-1.8)	0.7 (0.3-1.8)	0.5 (0.1-1.8)
Parental education <sup>c</sup>										
- both parents high	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
- only one parent high	1.3 (0.6-2.5)	1.2 (0.6-2.5)	1.3 (0.6-2.6)	1.2 (0.5-2.5)	1.2 (0.6-2.5)	1.1 (0.5-2.6)	1.2 (0.5-2.5)	1.1 (0.4-2.8)	1.2 (0.5-2.7)	0.9 (0.3-2.6)
- none of parents high	1.7 (0.7-4.1)	2.0 (0.8-5.0)	1.7 (0.7-4.2)	2.0 (0.7-5.5)	1.5 (0.6-3.9)	2.0 (0.6-6.4)	1.6 (0.6-4.4)	2.2 (0.6-8.1)	1.8 (0.6-5.1)	3.1 (0.7-14.7)
Non-intact familial composition <sup>d</sup>	1.2 (0.6-2.3)	1.2 (0.6-2.5)	1.2 (0.6-2.4)	1.1 (0.5-2.4)	1.3 (0.6-2.7)	0.9 (0.4-2.2)	1.3 (0.6-3.0)	1.0 (0.4-2.6)	1.3 (0.6-3.0)	1.2 (0.4-3.7)
Non-heterosexual orientation	1.1 (0.4-2.7)	1.6 (0.6-4.3)	0.9 (0.3-2.3)	1.3 (0.4-3.8)	1.0 (0.4-2.7)	1.6 (0.5-4.9)	0.6 (0.2-2.0)	0.7 (0.2-3.2)	0.6 (0.2-2.0)	0.5 (0.1-3.1)
College-related socio-demographics										
University Group membership										
- Human Sciences	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
- Science & Technology	1.0 (0.5-2.0)	0.9 (0.4-1.8)	1.0 (0.5-2.0)	0.9 (0.4-1.8)	1.0 (0.5-2.1)	0.9 (0.4-2.0)	1.0 (0.4-2.1)	1.0 (0.4-2.4)	1.0 (0.5-2.3)	1.1 (0.4-2.9)
- Biomedical Sciences	1.3 (0.6-3.0)	1.3 (0.5-3.2)	1.3 (0.6-3.2)	1.3 (0.5-3.2)	1.3 (0.5-3.3)	1.2 (0.4-3.6)	1.2 (0.5-3.3)	1.2 (0.4-4.1)	1.4 (0.5-3.9)	1.6 (0.4-6.7)
Non-GSE pre-educational level	1.0 (0.3-3.1)	0.6 (0.1-2.6)	0.9 (0.3-3.1)	0.5 (0.1-2.8)	0.9 (0.3-3.2)	0.4 (0.1-2.7)	0.8 (0.2-3.2)	0.4 (0.0-3.2)	0.7 (0.2-3.0)	0.2 (0.0-2.6)
Living with parents	1.2 (0.6-2.2)	0.9 (0.4-1.9)	1.2 (0.6-2.2)	1.0 (0.4-2.2)	1.1 (0.6-2.1)	0.8 (0.3-2.0)	1.1 (0.6-2.4)	0.9 (0.3-2.5)	1.1 (0.5-2.4)	0.8 (0.2-2.8)
II. Traumatic experiences (< age 17)										
parental psychopathology			1.4 (0.7-2.7)	1.6 (0.7-3.5)	1.3 (0.6-2.8)	1.7 (0.7-3.9)	1.4 (0.6-3.0)	1.8 (0.7-4.7)	1.4 (0.6-3.2)	1.9 (0.7-5.6)
physical abuse			1.5 (0.5-4.4)	2.4 (0.8-7.4)	1.2 (0.4-3.9)	2.2 (0.7-7.4)	1.4 (0.4-5.1)	2.7 (0.7-10.8)	1.2 (0.3-4.8)	2.1 (0.5-9.7)
emotional abuse			0.8 (0.4-1.8)	0.9 (0.4-2.1)	0.7 (0.3-1.6)	0.7 (0.3-1.8)	0.6 (0.3-1.5)	0.6 (0.2-1.7)	0.6 (0.2-1.6)	0.6 (0.2-2.0)
sexual abuse			1.6 (0.2-12.3)	5.4 (1.0-30.5)	1.8 (0.2-15.0)	6.3 (0.9-44.2)	2.1 (0.2-19.7)	7.7 (0.9-66.7)	2.2 (0.2-23.1)	8.8 (0.8-96.9)
neglect			1.5 (0.6-4.1)	1.2 (0.4-3.7)	1.3 (0.4-3.7)	0.7 (0.2-2.5)	1.4 (0.4-4.3)	0.8 (0.2-3.4)	1.2 (0.4-4.1)	0.7 (0.1-3.3)
bully victimization			1.2 (0.7-2.3)	1.0 (0.5-2.0)	1.4 (0.7-2.7)	1.1 (0.5-2.3)	1.2 (0.6-2.5)	0.9 (0.4-2.1)	1.3 (0.6-2.7)	1.0 (0.4-2.5)
dating violence			0.9 (0.4-2.4)	0.8 (0.3-2.4)	0.8 (0.3-2.3)	0.6 (0.2-1.9)	0.7 (0.2-2.2)	0.4 (0.1-1.8)	0.6 (0.2-2.0)	0.3 (0.1-1.7)
III. Twelve-month stressful experiences										
life-threatening illness or injury of a friend or fam	nily member				0.9 (0.4-1.9)	0.6 (0.2-1.6)	0.8 (0.3-1.9)	0.6 (0.2-1.7)	0.7 (0.3-1.8)	0.5 (0.2-1.9)

death of a friend or family member	1.2 (0.5-2.8) 2.2 (0.8-6.1) 1.2 (0.5-3.0) 2.2 (0.7-6.6) 1.1 (0.4-2.8) 1.8 (0.5-6.2)
break-up with a romantic partner	0.9 (0.4-2.0) 1.0 (0.3-2.7) 0.9 (0.3-2.2) 0.9 (0.3-2.7) 0.9 (0.3-2.3) 0.9 (0.2-3.4)
romantic partner cheated	0.7 (0.2-3.0) 0.5 (0.1-2.6) 0.7 (0.1-3.3) 0.6 (0.1-3.3) 0.6 (0.1-3.2) 0.4 (0.0-3.0)
serious betrayal someone else than partner	1.8 (0.8-3.9) 1.9 (0.8-4.5) 1.4 (0.6-3.4) 1.6 (0.6-4.3) 1.4 (0.6-3.5) 1.7 (0.5-5.6)
serious ongoing arguments/break-up with friend or family	1.1 (0.5-2.4) 1.6 (0.7-3.6) 1.1 (0.5-2.6) 1.8 (0.7-4.6) 1.1 (0.5-2.6) 1.6 (0.5-4.8)
life-threatening accident	7.1 $\begin{array}{cccc} 7.1 & (0.2-) \\ 294.6 & 294.6 \\ \end{array}$ 6.5 $\begin{array}{cccc} 7.1 & (0.1-) \\ 417.8 \\ \end{array}$ 7.2 $\begin{array}{cccc} 12.0 & (0.1-) \\ 1418 \\ \end{array}$
seriously physically assaulted	$3.7 (0.3-50.2)  \frac{4.7 (0.2-}{124.4)}  3.3 (0.2-50.3)  \frac{4.0 (0.1-}{133.8)}  3.7 (0.2-65.0)  \frac{4.3 (0.1-345.2)}{345.2}  4.3 (0.1-345.$
sexually assaulted or raped	5.5 (0.6-50.6) 2.2 (0.2-28.6) 4.2 (0.4-46.3) 1.5 (0.1-24.6) 5.5 (0.4-72.2) 0.9 (0.0-36.5)
any serious legal problem	1.0 (0.2-6.2) 3.3 (0.5-23.0) 1.2 (0.2-8.0) 3.3 (0.4-30.6) 1.2 (0.2-9.4) 4.3 (0.3-62.3)
IV. Twelve-month mental disorders	
risk for internalizing disorder	1.0 (0.5-2.1) 0.9 (0.3-2.4) 0.8 (0.4-1.8) 0.5 (0.2-1.6)
risk for externalizing disorder	1.2 (0.5-2.7) 1.0 (0.3-3.0) 1.3 (0.5-3.1) 1.0 (0.3-3.7)
risk for substance use disorder	0.9 (0.2-3.7) 0.9 (0.2-5.2) 1.1 (0.2-4.7) 1.7 (0.2-13.1)
IED item positive	1.4 (0.4-4.3) 1.6 (0.4-6.8) 1.1 (0.3-3.8) 1.2 (0.2-5.7)
(hypo)mania item positive	3.0 (1.0-8.9) 4.2 (0.9-20.0) 3.2 (1.0-10.6) 4.2 (0.7-24.7)
any eating disorder item positive	0.9 (0.3-2.6) 1.2 (0.4-3.9) 0.8 (0.3-2.4) 1.0 (0.3-3.8)
any psychotic item positive	1.0 (0.3-3.6) 0.8 (0.2-3.8) 1.0 (0.3-3.7) 0.8 (0.1-4.8)
non-suicidal self-injury	2.3 (0.7-7.2) $\frac{5.7^* (1.7-1.8 (0.5-6.2))}{18.5} = 1.8 (0.5-6.2) = 3.6 (0.9-14.9)$
V. Severity markers of pre-matriculation STB	
Twelve-month STB at baseline	$1.8 (0.7-4.4) \qquad \frac{4.7^* (1.4-15.9)}{15.9}$
Pre-matriculation lifetime STB	
- no pre-matriculation suicide plans or attempts (i.e., ideation only) <sup>d</sup>	(ref) (ref)
- pre-matriculation suicide plans; no attempts	1.7 (0.8-3.6) 2.5 (1.0-6.5)
- pre-matriculation suicide attempts	$3.5 (0.7-18.6)  \frac{11.1^* (1.4-87.4)}{87.4}$
STB characteristics in worse week of pre-	
matriculation lifetime STB	
duration STB 4 days or more/week	0.9 (0.4-2.0) 0.7 (0.2-2.0)
duration STB 5 hours or more/day	1.4 (0.3-6.6) 2.2 (0.4-13.5)
control STB very difficult/impossible	1.0 (0.3-3.1) 0.9 (0.2-3.8)
any STB-associated risky behavior	0.8 (0.3-1.8) 0.7 (0.2-2.2)
,,	

Course of pre-matriculation lifetime STB duration 5 years or more remission at college entrance 3 years or less

1.2 (0.5-2.9) 1.5 (0.5-4.9) 1.1 (0.4-2.9) 2.0 (0.5-9.1)

Note: significant OR are shown in bold and are marked with  $* (\alpha = 0.05)$ .

<sup>a</sup> The multivariate associations are based on a model including all predictors shown in the corresponding column.

<sup>b</sup> no STB during follow-up is the reference category

<sup>c</sup> High degree of parental education defined as holding a college bachelor degree or more.

<sup>d</sup> Non-intact familial composition defined as parents being divorced or separated.

<sup>e</sup> Students with a pre-matriculation history of ideation but not plans or attempts are the reference category for the 3-category predictor

Abbreviations: STB = GSE = general secondary education; IED = intermittent explosive disorder; OR = Odds ratio; Suicidal Thoughts and Behaviors.

Supplementary eTable 2. Multivariate population-level associations between risk factors under study and adverse clinical patterns of STB during follow-up.

	MULTIVARIATE MODEL 1ª		MULTIVARIATE MODEL 2 <sup>a</sup>		MULTIVARIATE MODEL 3 <sup>a</sup>		MULTIVARIATE MODEL 4 <sup>a</sup>		<u>MULTIVARIATE</u> <u>MODEL 5ª</u>	
	Two-time	<u>One-time</u>	Two-time	<u>One-time</u>	Two-time	<u>Two-time</u>	<u>One-time</u>	<u>Two-time</u>	<u>One-time</u>	<u>Two-time</u>
	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>	STB <sup>b</sup>
<u>I. Socio-demographic variables</u>	PARP	<u>PARP</u>	<b>PARP</b>	<b>PARP</b>	<b>PARP</b>	<b>PARP</b>	<b>PARP</b>	<u>PARP</u>	<u>PARP</u>	<u>PARP</u>
Being male	-3.8	2.6	-3.5	5.2	-3.8	3.4	-3.1	5.3	-3.0	4.5
Age $> 18$ years	0.7	12.7*	0.5	11.6*	0.5	10.2*	0.7	8.7	0.7	7.4
Non-Belgian nationality	-0.4	-2.6	-0.3	-3.3	-0.3	-3.6	-0.3	-3.5	-0.2	-1.8
Parents' financial situation difficult	0.4	-2.5	0.6	-3.8	0.8	-2.8	0.8	-3.2	0.8	-4.4
Parental education <sup>c</sup>										
- both parents high	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
- only one parent high	-1.2	1.3	-1.1	1.3	-0.9	1.2	-0.7	0.9	-1.0	0.5
- none of parents high	-1.2	4.6	-1.2	4.6	-0.8	3.8	-0.7	3.8	-0.6	4.5
Non-intact familial composition <sup>d</sup>	-0.7	2.3	-0.7	0.3	-1.4	-1.7	-1.5	-1.4	-1.4	-0.6
Non-heterosexual orientation	0.5	4.0	0.8	2.6	0.8	3.4	1.2	-1.1	1.1	-2.2
College-related socio-demographics										
University Group membership										
- Human Sciences	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)	(ref)
- Science & Technology	-0.1	-0.9	-0.1	-1.3	-0.1	-1.2	-0.2	-0.3	-0.3	0.5
- Biomedical Sciences	-0.6	1.6	-0.7	1.4	-0.6	0.9	-0.5	0.5	-0.5	1.4
Non-GSE pre-educational level	-0.7	-3.5	-0.6	-3.5	-0.8	-4.3	-0.7	-4.3	-0.8	-4.5
Living with parents	-1.7	-2.6	-1.2	-1.4	-1.2	-3.4	-1.3	-2.5	-1.3	-2.8
II. Traumatic experiences (< age 17)										
parental psychopathology			-1.6	6.2	-1.6	6.1	-1.7	6.0	-1.6	5.8
physical abuse			0.2	5.6	0.5	4.4	0.4	4.7	0.4	2.6
emotional abuse			1.3	-0.4	1.6	-2.9	1.9	-3.9	1.6	-3.7
sexual abuse			0.2	3.9	0.3	3.7	0.2	3.4	0.2	3.4
neglect			-1.4	0.1	-1.3	-2.5	-1.2	-1.7	-1.3	-2.3
bully victimization			-2.5	-0.5	-2.5	1.2	-2.4	-0.5	-2.7	-0.5
dating violence			-0.1	-1.2	0.0	-2.6	0.2	-3.5	0.3	-3.8
III. Twelve-month stressful experiences										
life-threatening illness or injury of a friend or fami	ly member				0.1	-4.7	0.3	-4.0	0.3	-4.2
death of a friend or family member					0.7	7.6	0.7	6.7	0.7	4.2
break-up with a romantic partner					0.4	-0.6	0.2	-1.3	0.2	-0.8
romantic partner cheated					0.3	-1.6	0.3	-1.4	0.2	-2.1
serious betrayal someone else than partner					-2.7	4.0	-2.1	1.8	-2.1	1.6
serious ongoing arguments/break-up with friend or	family				0.9	5.5	0.8	6.1	0.8	4.1

life-threatening accident	-0.5	1.0	-0.5	0.8	-0.5	1.0
seriously physically assaulted	-0.4	2.1	-0.3	1.6	-0.3	1.3
sexually assaulted or raped	-0.6	1.1	-0.5	0.8	-0.6	0.3
any serious legal problem	0.7	3.6	0.7	3.4	0.6	2.9
IV. Twelve-month mental disorders						
risk for internalizing disorder			1.0	-0.3	0.7	-5.1
risk for externalizing disorder			-0.9	-0.4	-1.2	-0.3
risk for substance use disorder			0.1	-0.5	0.3	1.2
IED item positive			0.1	3.2	0.2	1.1
(hypo)mania item positive			-2.1	6.0	-2.2	5.3
any eating disorder item positive			0.6	1.3	0.5	-0.8
any psychotic item positive			-0.4	-1.6	-0.4	-1.3
non-suicidal self-injury			-0.2	8.7*	-0.1	4.9
V. Severity markers of pre-matriculation STB						
Twelve-month STB at baseline					0.5	12.3*
Pre-matriculation lifetime STB						
- no pre-matriculation suicide plans or attempts (i.e., ideation only) <sup>d</sup>					(ref)	(ref)
- pre-matriculation suicide plans; no attempts					-1.9	7.9
- pre-matriculation suicide attempts					-0.1	7.2*
STB characteristics in worse week of pre-						
matriculation lifetime STB						
duration STB 4 days or more/week					-1.0	-3.0
duration STB 5 hours or more/day					0.5	2.4
control STB very difficult/impossible					-0.6	-1.0
any STB-associated risky behavior					1.1	-2.1
Course of pre-matriculation lifetime STB						
duration 5 years or more					0.3	3.6
remission at college entrance 3 years or less					1.1	4.7

Note: significant PARPs are shown in bold and are marked with \* ( $\alpha$ =0.05).

<sup>a</sup> The multivariate associations are based on a model including all predictors shown in the corresponding column.

<sup>b</sup> no STB during follow-up is the reference category

<sup>e</sup> High degree of parental education defined as holding a college bachelor degree or more.

<sup>d</sup> Non-intact familial composition defined as parents being divorced or separated.

<sup>e</sup> Students with a pre-matriculation history of ideation but not plans or attempts are the reference category for the 3-category predictor

Abbreviations: STB = GSE = general secondary education; IED = intermittent explosive disorder; OR = Odds ratio; Suicidal Thoughts and Behaviors.

**Supplementary eTable 3.** Model fit statistics and prediction accuracy measures of multivariate prediction models for adverse clinical patterns of STB during follow-up.

	MODEL 1		MODEL 2		MODEL 3		MODEL 4		MODEL 5	
	One-time	<u>Two-time</u>	One-time	<u>Two-time</u>	<u>One-time</u>	<u>Two-time</u>	<b>One-time</b>	<u>Two-time</u>	<u>One-time</u>	<u>Two-time</u>
	<u>STB</u>	<u>STB</u>	<u>STB</u>	<u>STB</u>	<u>STB</u>	<u>STB</u>	<u>STB</u>	<u>STB</u>	<u>STB</u>	<u>STB</u>
Akaike Information Criterion	482.37	459.60	467.36	427.10	441.93	380.37	418.25	333.22	395.37	271.15
Bayes Information Criterion	533.49	510.63	546.00	505.62	559.90	498.14	567.68	482.40	580.19	455.66
Nagelkerke pseudo-R <sup>2</sup> (%)	4.5	10.1	6.9	17.4	11.4	28.0	14.1	37.4	16.9	51.9
Area-under-the-Curve (SE) <sup>a</sup>	0.60 (0.03)	0.66 (0.04)	0.63 (0.03)	0.71 (0.04)	0.67 (0.04)	0.77 (0.03)	0.69 (0.04)	0.81 (0.03)	0.71 (0.03)	0.87 (0.03)
Area-under-the-Curve (SE) <sup>b</sup>	0.50 (0.05)	0.59 (0.05)	0.51 (0.05)	0.64 (0.05)	0.53 (0.05)	0.69 (0.04)	0.53 (0.05)	0.72 (0.04)	0.52 (0.05)	0.79 (0.04)
Sensitivity (SE) <sup>a,c</sup>	16.8 (4.3)	19.5 (4.2)	18.4 (4.5)	23.5 (4.4)	20.8 (4.6)	26.8 (4.5)	21.7 (4.6)	29.4 (4.6)	22.9 (4.6)	32.9 (4.7)
Sensitivity (SE) <sup>b,c</sup>	10.9 (4.5)	15.3 (4.3)	11.4 (4.4)	19.0 (4.5)	12.5 (4.4)	21.6 (4.6)	12.4 (4.3)	23.4 (4.6)	12.0 (4.3)	27.1 (4.6)
Positive Predictive Value (SE) <sup>a,d</sup>	43.2 (9.8)	51.3 (10.2)	47.8 (10.2)	63.1 (10.3)	54.9 (10.4)	72.2 (9.8)	57.6 (10.3)	79.1 (9.1)	60.8 (10.3)	88.3 (7.0)
Positive Predictive Value (SE) <sup>b,d</sup>	28.1 (11.0)	40.4 (11.1)	29.8 (11.1)	51.3 (11.9)	33.1 (11.4)	58.2 (11.7)	33.0 (11.3)	63.2 (11.4)	31.9 (11.5)	73.1 (10.5)

<sup>a</sup> calculated with cross-validated predicted probabilities obtained through leave-one-out cross-validation

<sup>b</sup> calculated with cross-validated predicted probabilities obtained through leave-one-out cross-validation

<sup>c</sup> Sensitivity = Proportion of (high-)persistent STB outcome cases found among the 10% of respondents with highest predicted probabilities.

<sup>d</sup> Positive Predictive Value = Probability of effectively developing (high-)persistent STB when being among the 10% of respondents with highest predicted probabilities.