



## **Supplementary Material**

**Article Title:** A Comprehensive Model of Predictors of Suicide Attempt in Depressed Individuals and Effect of Treatment-Seeking Behavior: Results From a National 3-Year Prospective Study

**Author(s):** Nicolas Hoertel, MD, MPH; Carlos Blanco, MD, PhD; Mark Olfson, MD, MPH; Maria A. Oquendo, MD, PhD; Melanie M. Wall, PhD; Silvia Franco, MD; Henri Leleu, MD, PhD; Cédric Lemogne, MD, PhD; Bruno Falissard, MD, PhD; and Frédéric Limosin, MD, PhD

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### **List of Supplementary Material for the article**

1. [Table 1](#) Bifactor model of past-year Axis I disorders and lifetime Axis II disorders...
2. [Table 2](#) Confirmatory factor analysis model of the 14 disaggregated DSM-IV criteria for Major...
3. [Table 3](#) Associations of the latent variables with observed predictors in the structural equation...
4. [Table 4](#) Associations across observed predictors in the structural equation model of the 3-year...
5. [Figure 1](#) Structural equation model of the 3-year risk of suicide attempt...

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## SUPPLEMENTARY MATERIAL

**Supplementary Table 1. Bifactor model of past-year Axis I disorders and lifetime Axis II disorders in individuals with a twelve-month DSM-IV diagnosis of Major Depressive Episode (N=2587) in Wave 1 of the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC).**

CFI					<b>0.964</b>
TLI					<b>0.952</b>
RMSEA					<b>0.020</b>
Disorder		<b>General Psychopathology factor</b>	<b>Internalizing I</b>	<b>Internalizing II</b>	<b>Externalizing</b>
Dysthymia		0.33	0.35		
GAD		0.41	0.87		
Panic disorder		0.43	0.23		
Social Anxiety Disorder		0.65		0.57	
Specific phobia		0.48		0.16	
Mania/Hypomania		0.47		-0.16	
Avoidant PD		0.73		0.30	
Dependent PD		0.86		0.05	
OCPD		0.58		-0.10	
Histrionic PD		0.67		-0.37	
Schizoid PD		0.64		0.08	
Paranoid PD		0.82		-0.08	
Alcohol use disorder		0.16			0.61
Drug use disorder		0.38			0.85
Nicotine dependence		0.31			0.50
Pathological gambling		0.26			0.19
Antisocial PD		0.42			0.47
Factor correlation					
General Psychopathology factor		1.00			
Internalizing I		0.00	1.00		
Internalizing II		0.00	0.00	1.00	
Externalizing		0.00	0.00	0.00	1.00

Abbreviations: CFI, Comparative Fit Index; TLI, Tucker-Lewis Index; RMSEA, Root Mean Square Error of Approximation; MDE, major depressive episode; GAD, generalized anxiety disorder; PD, personality disorder; OCPD, obsessive-compulsive personality disorder.

**Supplementary Table 2. Confirmatory factor analysis model of the 14 disaggregated DSM-IV criteria for Major Depressive Episode in individuals with a twelve-month DSM-IV diagnosis of Major Depressive Episode (N=2587) in Wave 1 of the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC).**

CFI		<b>0.941</b>		
TLI		<b>0.922</b>		
RMSEA		<b>0.044</b>		
Disorder		<b>General depressive symptoms</b>	<b>Loss of weight/appetite</b>	<b>Increase of weight/appetite and hypersomnia</b>
<b>Depressed mood</b>		0.31		
<b>Anhedonia</b>		0.20		
<b>Loss of appetite</b>		0.84	0.80	
<b>Loss of weight</b>		0.75	0.67	
<b>Increase of appetite</b>			-0.94	0.49
<b>Increase of weight</b>			-0.79	0.45
<b>Insomnia</b>		0.48		-0.46
<b>Hypersomnia</b>				0.65
<b>Psychomotor retardation</b>		0.34		
<b>Psychomotor agitation</b>		0.51		
<b>Loss of energy or fatigue</b>		0.13		
<b>Feeling of worthlessness</b>		0.20		
<b>Diminished ability to think or concentrate, or indecisiveness</b>		0.28		
<b>Recurrent thoughts of death</b>		0.18		
Factor correlation				
<b>General depressive symptoms</b>		1.00	-0.28	-0.26
<b>Loss of weight/appetite</b>		-0.28	1.00	0.12
<b>Increase of weight/appetite and hypersomnia</b>		-0.26	0.12	1.00

Abbreviations: CFI, Comparative Fit Index; TLI, Tucker-Lewis Index; RMSEA, Root Mean Square Error of Approximation.

**Supplementary Table 3. Associations of the latent variables with observed predictors in the structural equation model of the 3-year risk of suicide attempt in a general population sample of adults with a major depressive episode (n=2,587).**

Associations	Loss of weight/appetite	General depressive symptoms	Increase of weight/appetite and hypersomnia	General psychopathology factor
Loss of weight/appetite	1.00			
General depressive symptoms	-0.24*	1.00		
Increase of weight/appetite and hypersomnia	-0.67***	-0.01	1.00	
General psychopathology factor	0.06	0.35***	0.04	1.00
Family history of major depression	-0.24**	0.18*	0.19*	0.17*
Age of onset of major depression	0.23***	-0.23***	-0.15**	-0.26***
Number of MDEs	0.02	-0.03	-0.01	0.03
Prior suicide attempt	-0.28***	0.55***	0.04	0.33***
Mental Component Score	0.16**	-0.32***	-0.05	-0.39***
Physical Component Score	-0.03	0.01	-0.06	-0.03
Treatment-seeking behavior	-0.12	0.35***	0.17*	0.31***
Sex	-0.10	0.02	-0.30***	0.14*
Household income<\$20000	0.06	-0.02	-0.06	0.11
Race/Ethnicity	-0.12	-0.05	0.04	0.09
Age	-0.11*	0.15**	0.04	0.03
Marital status	-0.12	-0.05	0.04	0.01

Number of current stressful life events	0.01	0.05	0.04	0.10***
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Coefficients are probit regression coefficients.

\*\*\* two-sided p-value (p) <.001; \*\* p<.01; \* p<.05.

Abbreviation: MDE=major depressive episode.

**Supplementary Table 4. Associations across observed predictors in the structural equation model of the 3-year risk of suicide attempt in a general population sample of adults with a major depressive episode (n=2,587).**

Associations	Family history of major depression	Age of onset of Depression	Number of MDEs	Prior suicide attempt	Mental Component Score	Physical Component Score	Treatment-seeking behavior	Sex	Household income <\$20000	Race/Ethnicity	Age	Marital status	Number of current stressful life events
Family history of major depression	1.00												
Age of onset of Depression	-0.12*	1.00											
Number of MDEs	0.13*	-0.19***	1.00										
Prior suicide attempt	0.11	-0.40**	0.18**	1.00									
Mental Component Score	-0.06	-0.05	-0.17**	-0.28***	1.00								
Physical Component Score	-0.01	-0.22***	-0.15**	-0.15**	0.52***	1.00							
Treatment-seeking behavior	0.05	-0.03	0.12*	0.31***	-0.22***	-0.14**	1.00						
Sex	-0.06	0.01	0.05	-0.01	0.11*	0.08	-0.16*	1.00					
Household income < \$20000	0.04	0.05	0.05	0.16	-0.30***	-0.31***	0.02	-0.12*	1.00				

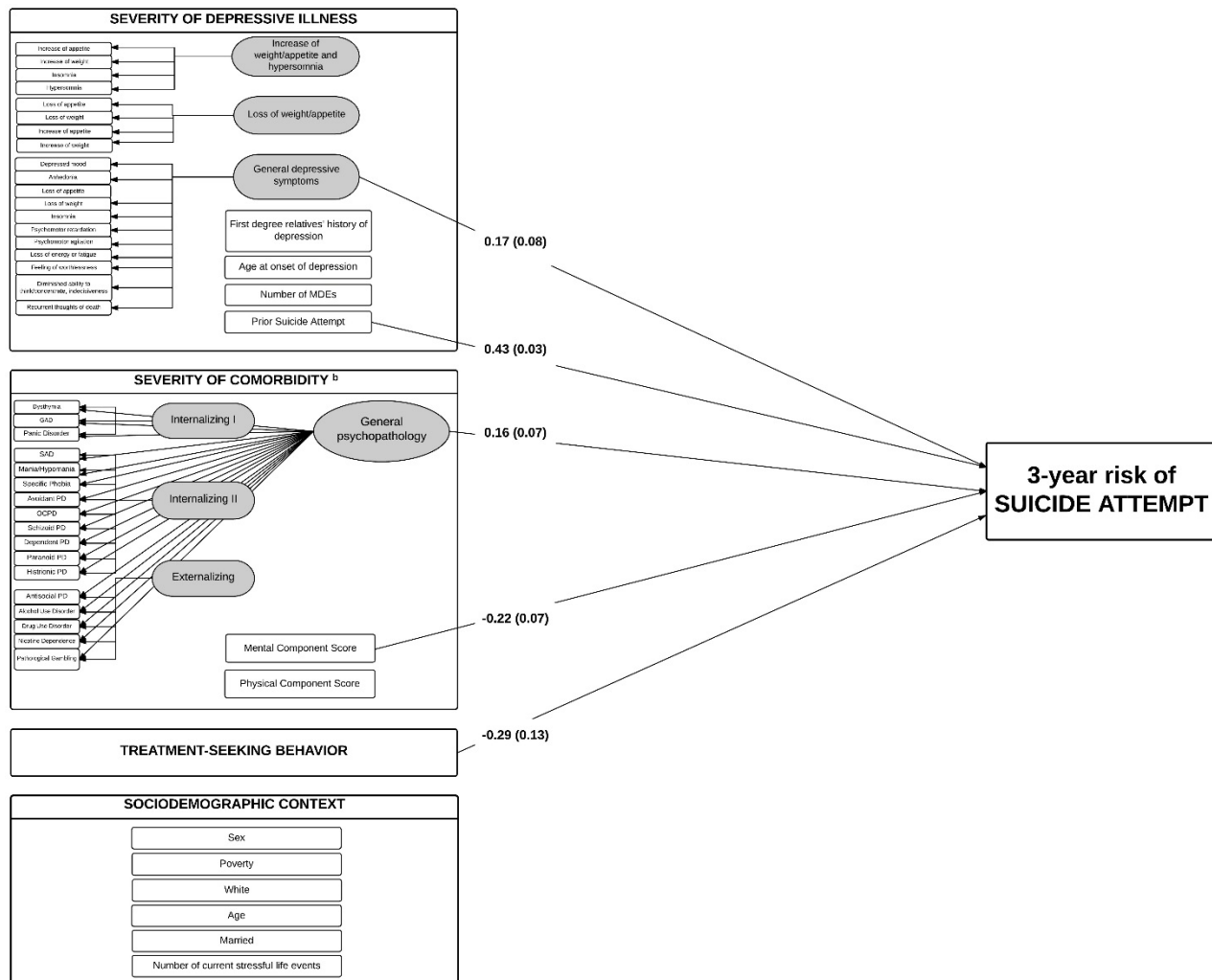
Race/Ethnicity	0.08	-0.06	0.07	-0.05	0.07	0.11*	0.10	0.01	-0.20*	1.00			
Age	0.01	0.70***	0.07*	-0.20**	-0.16**	-0.36**	0.02	-0.03	0.06	0.07	1.00		
Marital status	0.05	0.16**	0.01	-0.09	0.03	0.01	0.09	-0.12*	-0.39***	0.09	0.20**	1.00	
Number of current stressful life events	0.15**	-0.21***	0.015	0.13*	-0.14**	0.01	-0.01	0.01	0.14**	-0.08	-0.28***	-0.19**	1.00

Coefficients are probit regression coefficients.

\*\*\* two-sided p-value (p) <.001; \*\* p<.01; \* p<.05.

Abbreviation: MDE=major depressive episode.

**Supplementary Figure 1. Structural equation model of the 3-year risk of suicide attempt in a general population sample of adults with a major depressive episode: sensitivity analysis excluding participants with at least one missing data (n = 2,332).<sup>a</sup>**



<sup>a</sup> Regression coefficients shown are standardized. Values in brackets indicate their standard errors. Only significant effects (two-sided  $p < .05$ ) are represented in the model. There is no other latent factor or disorder or symptom of MDE with modification index greater or equal to 10 to predict suicide attempt in addition.

<sup>b</sup> Axis I disorders were past year diagnoses while Axis II disorders were assessed on a lifetime basis.

Abbreviations: MDE, major depressive episode; GAD, generalized anxiety disorder; SAD, social anxiety disorder; OCPD, obsessive-compulsive personality disorder; PD, personality disorder.