



Supplementary Material

Article Title: Contributing Factors and Mental Health Outcomes of First Suicide Attempt During Childhood and Adolescence: Results From a Nationally Representative Study

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DOI Number: 10.4088/JCP.16m10876

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Supplementary Table 1. Comparing contributing factors for attempting suicide (i.e., childhood maltreatment, parental history of mental disorders and family poverty) of individuals who first attempted suicide before 13 years and those who first attempted suicide between 13 and 17 years to non-attempters.

	First suicide attempt < 13 years	First suicide attempt between 13 and 17 years	First suicide attempt < 18 years	Controls	ADJUSTED WALD TEST ^a		ADJUSTED WALD TEST ^a		ADJUSTED WALD TEST ^a	
					First suicide attempt < 13 years		First suicide attempt between 13 and 17 years		First suicide attempt < 18 years	
					vs. Controls		vs. Controls		vs. Controls	
					Wald-F	p-value	Wald-F	p-value	Wald-F	p-value
TYPES OF CHILDHOOD MALTREATMENT	(n = 104) % (SE)	(n = 415) % (SE)	(n = 519) % (SE)	(n = 33388) % (SE)						
Physical neglect	10.2 (0.7)	8.0 (0.2)	8.4 (0.2)	6.0 (0.0)	142.5	<0.001	158.3	<0.001	236.3	<0.001
Emotional abuse	9.2 (0.5)	7.4 (0.2)	7.7 (0.2)	4.3 (0.0)	150.4	<0.001	277.2	<0.001	388.5	<0.001
Physical abuse	6.1 (0.3)	4.6 (0.2)	4.9 (0.2)	2.8 (0.0)	219.2	<0.001	255.9	<0.001	387.0	<0.001
Sexual abuse	8.5 (0.6)	6.9 (0.2)	7.2 (0.2)	4.3 (0.0)	173.2	<0.001	310.6	<0.001	393.1	<0.001
Emotional neglect	13.5 (0.8)	11.9 (0.4)	12.2 (0.3)	8.1 (0.0)	78.8	<0.001	212.6	<0.001	273.8	<0.001
FAMILY HISTORY OF MENTAL DISORDER										
Alcohol abuse	59.5 (6.5)	46.4 (3.0)	48.7 (2.7)	21.3 (0.4)	24.6	<0.001	51.0	<0.001	75.7	<0.001
Drug abuse	24.9 (5.4)	16.5 (2.4)	18.0 (2.3)	3.4 (0.1)	22.0	<0.001	33.2	<0.001	49.5	<0.001
Major depression	59.1 (6.5)	56.5 (3.3)	56.9 (3.0)	23.5 (0.5)	21.4	<0.001	74.8	<0.001	95.1	<0.001
Antisocial personality disorder	28.6 (5.7)	31.8 (3.1)	31.2 (2.9)	8.1 (0.3)	13.2	<0.001	80.6	<0.001	83.1	<0.001
FAMILY POVERTY	33.5 (5.8)	29.8 (2.8)	30.5 (2.5)	12.7 (0.4)	5.8	0.018	28.0	<0.001	33.7	<0.001

Percentages are weighted.

^a Adjusted for sex, race/ethnicity, nativity, age, individual and family incomes, and marital status.

Supplementary Table 2. Comparing adulthood sociodemographic characteristics of individuals who first attempted suicide before 13 years and those who first attempted suicide between 13 and 17 years to non-attempters.

	First suicide attempt < 13 years	First suicide attempt between 13 and 17 years	First suicide attempt < 18 years	Controls	WALD TEST		WALD TEST		WALD TEST	
					First suicide attempt < 13 years		First suicide attempt between 13 and 17 years		First suicide attempt < 18 years	
					vs. Controls		vs. Controls		vs. Controls	
	(n = 104) % (SE)	(n = 415) % (SE)	(n = 519) % (SE)	(n = 33388) % (SE)	Wald-F	p-value	Wald-F	p-value	Wald-F	p-value
SOCIODEMOGRAPHICS										
Sex										
Male	23.8 (4.9)	29.2 (3.0)	28.2 (2.6)	48.5 (0.4)	16.4	<0.001	32.4	<0.001	45.1	<0.001
Female	76.2 (4.9)	70.8 (3.0)	71.8 (0.4)	51.5 (0.4)						
Race/ethnicity										
White	60.3 (6.3)	73.5 (3.0)	71.1 (2.7)	70.9 (1.6)	2.6	0.040	0.9	0.4	1.8	0.13
Black	9.6 (2.8)	9.2 (1.6)	9.2 (1.4)	11.1 (0.7)						
Native American	6.4 (2.7)	3.1 (1.0)	3.7 (1.0)	2.1 (0.2)						
Asian	3.5 (1.9)	3.1 (1.3)	3.2 (1.1)	4.3 (0.5)						
Hispanic	20.2 (5.4)	11.2 (2.3)	12.8 (2.2)	11.6 (1.2)						
Nativity										
US-born	92.5 (2.3)	92.0 (2.1)	92.1 (1.9)	86.0 (1.4)	5.1	0.026	5.7	0.018	8.1	0.005
Foreign-born	7.5 (2.3)	8.0 (2.1)	7.9 (1.9)	14.0 (1.4)						
Age, years										
18–29	33.0 (6.0)	34.0 (2.8)	33.8 (2.5)	16.2 (0.3)	7.9	<0.001	34.2	<0.001	39.6	<0.001
30–44	44.3 (6.1)	44.7 (3.0)	44.6 (2.7)	29.4 (0.4)						
45–64	20.8 (4.9)	20.0 (2.5)	20.8 (2.2)	34.6 (0.3)						
65+	2.0 (1.5)	1.3 (0.6)	1.4 (0.5)	19.8 (0.4)						
Education										
Less than high school	15.1 (4.1)	13.4 (2.2)	13.7 (2.1)	14.0 (0.5)	0.1	0.9	0.3	0.7	0.2	0.8
High school graduate	28.6 (5.8)	25.6 (2.8)	26.2 (2.6)	27.6 (0.6)						
Some college or higher	56.2 (6.6)	61.0 (3.4)	60.1 (3.2)	58.5 (0.7)						
Individual income										
\$0–19 999	61.6 (5.8)	58.0 (3.0)	58.7 (2.7)	41.5 (0.6)	4.0	0.009	10.4	<0.001	14.4	<0.001
\$20 000–34 999	21.0 (4.6)	19.2 (2.4)	19.6 (2.1)	23.2 (0.4)						
\$35 000–69 999	14.8 (5.0)	19.6 (2.5)	18.7 (2.2)	24.6 (0.4)						
\$70 000+	2.6 (1.9)	3.2 (1.2)	3.1 (1.0)	10.6 (0.5)						
Family income										
\$0–19 999	34.0 (5.7)	27.3 (2.7)	28.5 (2.4)	19.2 (0.5)	3.9	0.011	6.6	<0.001	9.5	<0.001
\$20 000–34 999	22.4 (5.2)	19.4 (2.2)	19.9 (2.1)	18.8 (0.4)						
\$35 000–69 999	26.9 (5.4)	33.3 (3.1)	32.1 (2.6)	32.3 (0.4)						
\$70 000+ 23.25	16.7 (5.3)	20.0 (2.4)	19.4 (2.3)	29.7 (0.8)						
Marital status										
Married, living with someone as if married	61.6 (5.6)	51.4 (3.0)	53.3 (2.8)	64.2 (0.5)	1.3	0.3	17.4	<0.001	15.8	<0.001
Divorced or separated	17.5 (4.0)	20.0 (2.3)	49.5 (2.1)	11.2 (0.2)						

Widowed	4.5 (2.6)	1.5 (0.6)	2.0 (0.7)	7.3 (0.2)
Never married	16.4 (3.9)	27.2 (2.9)	25.2 (2.5)	17.2 (0.5)

Percentages are weighted.

Supplementary Table 3. Comparing adulthood mental health outcomes (i.e., occurrence of psychiatric disorders and quality of life measures) of individuals who first attempted suicide before 13 years and those who first attempted between 13 and 17 years to non-attempters.

	First suicide attempt < 13 years	First suicide attempt between 13 and 17 years	First suicide attempt < 18 years	Controls	ADJUSTED WALD TEST ^a		ADJUSTED WALD TEST ^a		ADJUSTED WALD TEST ^a	
					First suicide attempt < 13 years		First suicide attempt between 13 and 17 years		First suicide attempt < 18 years	
					vs.		vs.		vs.	
					Controls		Controls		Controls	
	(n = 104)	(n = 415)	(n = 519)	(n = 33388)	Wald-F	p-value	Wald-F	p-value	Wald-F	p-value
	% (SE)	% (SE)	% (SE)	% (SE)						
LIFETIME MENTAL DISORDERS										
Substance use disorders										
Alcohol use disorder	50.0 (6.5)	51.8 (3.0)	51.5 (2.8)	33.8 (0.8)	7.9	0.006	26.0	<0.001	32.8	<0.001
Drug use disorder	43.0 (6.2)	40.6 (3.1)	41.0 (2.8)	11.2 (0.3)	35.2	<0.001	115.6	<0.001	150.1	<0.001
Nicotine dependence	57.8 (6.4)	50.8 (3.3)	52.1 (2.9)	22.2 (0.5)	21.9	<0.001	74.6	<0.001	95.8	<0.001
Mood disorders										
Major depressive episode	71.9 (5.7)	66.0 (2.9)	67.1 (2.6)	20.3 (0.4)	42.1	<0.001	178.5	<0.001	235.8	<0.001
Mania or hypomania	44.6 (5.9)	30.4 (2.6)	33.0 (2.4)	7.6 (0.2)	55.0	<0.001	87.2	<0.001	132.5	<0.001
Dysthymic disorder	33.7 (6.0)	22.6 (2.5)	24.6 (2.3)	4.3 (0.1)	67.9	<0.001	101.2	<0.001	153.5	<0.001
Anxiety disorders										
Panic disorder with or without agoraphobia	42.4 (6.1)	26.7 (2.6)	29.6 (2.4)	6.6 (0.2)	55.4	<0.001	87.1	<0.001	142.4	<0.001
Agoraphobia	13.1 (4.1)	12.7 (2.2)	12.8 (1.9)	1.7 (0.1)	18.6	<0.001	56.5	<0.001	72.9	<0.001
Social anxiety disorder	22.6 (4.6)	28.0 (2.8)	27.0 (2.5)	6.3 (0.2)	20.9	<0.001	103.2	<0.001	110.4	<0.001
Specific phobia	41.1 (6.0)	37.1 (3.1)	37.9 (2.9)	14.4 (0.4)	19.3	<0.001	49.1	<0.001	61.0	<0.001
Generalized anxiety disorder	35.5 (5.5)	28.0 (2.6)	29.3 (2.4)	6.8 (0.2)	46.3	<0.001	99.4	<0.001	138.1	<0.001
Post-traumatic stress disorder	48.4 (6.0)	38.7 (2.9)	40.5 (2.5)	8.4 (0.2)	67.3	<0.001	182.2	<0.001	268.2	<0.001
Attention deficit-hyperactivity disorder	16.3 (4.4)	20.2 (2.5)	19.5 (2.2)	2.0 (0.1)	33.9	<0.001	145.0	<0.001	161.7	<0.001
Pathological gambling	0.3 (0.3)	0.7 (0.4)	0.6 (0.3)	0.4 (0.1)	0.0	0.9	1.0	0.3	0.9	0.4
Conduct disorder	26.1 (5.3)	21.9 (2.9)	22.7 (2.6)	4.2 (0.2)	50.1	<0.001	99.8	<0.001	137.8	<0.001
At least one Axis-I psychiatric disorder	95.9 (2.1)	93.5 (1.7)	93.9 (1.5)	61.9 (0.7)	20.2	<0.001	55.7	<0.001	66.3	<0.001
Personality disorders										
Avoidant	16.4 (4.6)	15.7 (2.4)	15.9 (2.1)	1.9 (0.1)	33.3	<0.001	87.8	<0.001	108.8	<0.001
Dependent	4.1 (2.2)	4.5 (1.5)	4.4 (1.3)	0.3 (0.0)	13.3	<0.001	33.0	<0.001	40.5	<0.001
Obsessive-compulsive	23.0 (5.0)	22.5 (2.8)	22.6 (2.4)	7.6 (0.2)	16.4	<0.001	49.4	<0.001	63.0	<0.001
Paranoid	22.2 (4.7)	18.5 (2.4)	19.2 (2.1)	3.8 (0.2)	28.1	<0.001	64.2	<0.001	88.5	<0.001
Schizoid	15.5 (4.1)	13.9 (2.3)	14.2 (2.0)	2.7 (0.1)	24.5	<0.001	53.3	<0.001	72.6	<0.001
Schizotypal	31.1 (5.2)	21.9 (2.6)	23.6 (2.3)	3.3 (0.1)	89.5	<0.001	142.0	<0.001	206.2	<0.001
Narcissistic	20.6 (4.6)	18.8 (2.5)	19.1	5.8 (0.2)	22.3	<0.001	47.4	<0.001	64.9	<0.001
Borderline	50.8 (6.3)	38.9 (2.8)	41.1 (2.7)	4.6 (0.2)	117.1	<0.001	288.5	<0.001	387.3	<0.001
Histrionic	9.1 (3.3)	7.2 (1.8)	7.5 (1.5)	1.6 (0.1)	11.6	<0.001	15.9	<0.001	24.8	<0.001
Antisocial	23.1 (5.0)	20.7 (2.9)	21.2 (2.6)	3.4 (0.2)	46.8	<0.001	101.1	<0.001	129.2	<0.001
At least one personality disorder	75.8 (5.8)	67.0 (2.6)	68.6 (2.4)	19.9 (0.4)	54.8	<0.001	254.9	<0.001	293.9	<0.001
At least one Axis-I or personality disorder	97.7 (1.3)	95.1 (1.5)	95.6 (1.3)	64.4 (0.7)	25.5	<0.001	51.7	<0.001	59.0	<0.001
PAST YEAR MENTAL DISORDERS										

Substance use disorder										
Alcohol use disorder	16.6 (4.3)	15.7 (2.1)	15.8 (1.9)	9.4 (0.3)	3.3	0.073	3.4	0.067	5.5	0.021
Drug use disorder	11.8 (4.0)	14.8 (2.4)	14.2 (2.2)	2.1 (0.1)	13.7	<0.001	69.9	<0.001	79.9	<0.001
Nicotine dependence	41.3 (5.7)	35.2 (2.9)	36.3 (2.7)	13.1 (0.4)	25.8	<0.001	57.3	<0.001	74.8	<0.001
Mood disorders										
Major depressive episode	39.3 (5.9)	31.0 (2.9)	32.5 (2.6)	7.4 (0.2)	38.9	<0.001	89.5	<0.001	127.8	<0.001
Mania or hypomania	25.7 (4.9)	18.3 (2.3)	19.6 (2.1)	2.8 (0.1)	53.9	<0.001	90.3	<0.001	122.2	<0.001
Dysthymic disorder	10.8 (4.6)	5.1 (1.0)	6.2 (1.2)	1.0 (0.1)	22.3	<0.001	28.6	<0.001	41.0	<0.001
Anxiety disorders										
Panic disorder with or without agoraphobia	16.6 (4.4)	13.6 (2.1)	14.1 (1.9)	2.2 (0.1)	23.1	<0.001	59.7	<0.001	79.6	<0.001
Agoraphobia	10.1 (3.7)	7.2 (1.5)	7.8 (1.4)	0.7 (0.1)	25.3	<0.001	57.6	<0.001	80.6	<0.001
Social anxiety disorder	17.1 (4.2)	13.4 (2.0)	14.1 (1.8)	2.1 (0.1)	35.7	<0.001	57.0	<0.001	79.4	<0.001
Specific phobia	26.0 (5.4)	22.4 (2.4)	23.0 (2.3)	7.0 (0.2)	17.9	<0.001	46.6	<0.001	58.2	<0.001
Generalized anxiety disorder	15.9 (2.1)	15.9 (4.1)	15.9 (1.9)	3.3 (0.1)	17.0	<0.001	63.9	<0.001	82.7	<0.001
Post-traumatic stress disorder	42.6 (5.9)	30.1 (2.8)	32.4 (2.5)	5.6 (0.2)	79.3	<0.001	138.6	<0.001	211.1	<0.001
At least one Axis-I psychiatric disorder	77.0 (5.2)	73.2 (2.8)	73.9 (2.5)	33.5 (0.5)	30.0	<0.001	94.8	<0.001	124.0	<0.001
HEALTH-RELATED QUALITY OF LIFE (WAVE 2), mean (SE)										
Physical Component	48.0 (1.5)	48.7 (0.7)	48.5 (0.7)	50.5 (0.1)	11.1	0.001	47.7	<0.001	56.4	<0.001
Mental Component	43.0 (1.5)	45.3 (0.6)	44.9 (0.6)	51.8 (0.1)	30.4	<0.001	80.0	<0.001	98.9	<0.001
Social Functioning	42.7 (1.6)	46.5 (0.8)	45.8 (0.7)	52.0 (0.1)	49.7	<0.001	72.5	<0.001	114.8	<0.001
Role Emotional	42.3 (1.2)	44.5 (0.6)	44.1 (0.6)	49.8 (0.1)	34.4	<0.001	97.2	<0.001	112.1	<0.001
Mental Health	44.1 (1.5)	45.7 (0.7)	45.4 (0.6)	52.4 (0.1)	25.7	<0.001	71.8	<0.001	92.6	<0.001

Percentages are weighted.
^a Adjusted for sex, race/ethnicity, nativity, age, individual and family incomes, and marital status.