

Appendix Table 1. Prevalence of Lifetime DSM-IV Disorders among Suicidality

	Among Total Sample												Among Ideators																				
	Ideation			No Ideation			Attempt			No Attempt			Plan			No Plan			Planned Attempt			No Attempt			Unplanned Attempt			No Attempt					
	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²	% ³	SE	N ²
I. Anxiety disorders																																	
Panic Disorder	5.9	0.5	91	3.3	0.3	273	10.6	1.4	50	4.0	0.2	370	8.4	1.3	46	10.6	1.0	101	11.6	1.9	34	10.6	2.3	23	9.1	2.2	16	9.8	1.1	74			
GAD	6.9	0.7	107	5.4	0.3	442	12.1	2.0	59	6.7	0.3	616	10.2	1.6	53	18.6	1.6	188	14.0	2.9	40	14.8	2.8	33	9.5	1.9	19	17.1	1.7	141			
Specific Phobia	21.6	1.0	316	10.5	0.5	853	28.8	2.3	137	11.5	0.4	1048	27.1	1.9	138	20.2	1.2	196	33.4	2.8	93	21.0	2.0	49	22.2	3.6	44	19.1	1.4	146			
Social Phobia	23.7	1.1	337	9.1	0.4	737	32.0	2.6	144	10.8	0.4	971	32.3	2.0	155	23.0	1.8	221	39.0	2.8	102	29.2	3.3	63	21.9	4.2	42	22.4	1.7	171			
PTSD ⁴	9.8	0.8	149	4.6	0.4	321	17.0	1.8	83	5.7	0.4	463	16.8	1.7	89	13.9	1.2	130	19.6	2.4	57	24.9	2.9	57	13.3	2.5	26	11.3	1.3	85			
SAD ⁴	13.8	1.2	190	6.6	0.4	432	18.7	1.6	92	8.1	0.4	612	19.2	2.2	93	21.3	1.6	183	21.7	2.4	62	24.1	3.1	52	14.4	2.9	30	19.7	2.2	128			
Agoraphobia	2.3	0.5	37	0.9	0.1	70	2.2	0.6	12	1.2	0.1	104	2.1	0.7	11	3.1	0.7	33	2.3	1.0	7	3.7	1.3	9	2.1	1.1	5	3.0	0.8	25			
Any Anxiety Disorder ⁴	48.3	1.9	688	26.0	1.0	1866	61.2	2.5	287	29.3	1.1	2395	59.0	1.9	301	56.1	2.6	515	67.2	3.1	189	60.1	3.1	137	52.4	4.0	98	53.8	2.8	392			
II. Mood disorders																																	
MDD	19.9	1.0	305	13.8	0.5	1102	28.5	2.4	138	17.1	0.5	1551	32.1	2.6	162	42.5	1.8	419	33.9	3.7	98	54.5	3.0	127	20.7	2.8	40	40.2	2.1	322			
Dysthymia	4.8	0.6	69	2.3	0.2	182	7.9	1.5	37	3.2	0.2	294	9.0	1.7	43	11.4	0.9	111	10.3	2.0	28	13.2	2.7	30	4.4	1.5	9	10.3	0.9	82			
Bipolar Disorder	4.8	0.6	76	3.0	0.2	232	8.9	1.4	44	3.6	0.2	321	7.4	1.0	43	9.8	1.0	95	9.6	1.4	30	9.4	1.9	25	7.9	2.3	14	8.1	0.9	64			
Any Mood Disorder	23.1	1.2	351	15.7	0.6	1250	32.5	2.6	155	19.2	0.6	1730	35.5	2.9	179	46.2	1.7	451	37.5	4.0	108	56.8	3.2	131	25.4	3.0	47	44.1	1.9	349			
III. Externalizing disorders																																	
ODD ⁵	17.6	1.4	144	7.7	0.8	251	27.9	2.4	82	8.8	0.8	333	24.8	3.6	72	16.6	1.6	87	28.6	3.6	52	23.3	5.9	26	26.9	3.2	30	13.5	1.9	56			
Conduct Disorder ⁵	15.6	1.7	122	7.3	0.6	231	23.9	2.4	68	8.1	0.7	298	19.3	3.0	58	16.2	2.6	78	23.3	3.8	41	16.5	3.4	21	24.8	4.1	27	12.9	2.4	46			
ADHD ⁵	16.0	1.7	127	6.1	0.5	214	24.0	2.7	68	6.9	0.6	277	22.9	2.9	69	12.7	1.7	61	26.3	3.4	48	18.7	3.4	22	20.4	4.1	20	10.5	1.9	41			
IED	12.8	1.0	185	6.0	0.4	454	16.3	1.6	73	7.0	0.4	611	17.3	1.9	88	15.1	1.6	147	19.6	2.3	50	17.9	2.7	46	11.5	2.4	23	14.4	1.7	111			
Any Impulse Disorder ⁵	40.8	1.7	338	20.4	1.1	670	51.6	3.3	158	22.9	1.1	882	48.8	3.8	151	41.5	2.3	218	54.1	4.6	100	47.0	4.9	60	47.7	4.2	58	38.0	2.4	152			
IV. Substance use disorders																																	
Alcohol Abuse or Dep. ⁴	12.2	1.0	162	10.4	0.5	645	18.3	1.9	76	11.9	0.5	859	17.9	2.2	84	24.6	1.9	211	17.7	2.8	45	31.8	4.7	65	19.1	3.4	31	22.0	2.3	149			
Drug Abuse or Dep. ⁴	7.2	1.0	97	5.8	0.4	377	12.6	2.0	57	6.9	0.4	517	15.4	1.9	69	14.1	1.2	132	16.7	2.7	44	23.4	3.1	46	6.7	2.1	13	12.8	1.4	94			
Any Substance Disorder ⁴	13.9	1.2	186	11.5	0.6	711	21.4	2.0	94	13.2	0.6	952	22.1	2.8	103	27.9	1.7	240	22.1	3.1	60	34.3	4.2	70	20.4	3.5	34	25.4	2.1	171			
Any Disorder ⁴	66.0	1.8	927	41.1	1.1	2779	79.6	1.8	369	45.1	1.1	3504	77.5	1.9	383	77.1	2.0	697	83.4	2.7	233	84.4	2.3	186	74.1	3.5	136	75.1	2.4	539			
V. Number of Disorders																																	
Exactly 1 ⁴	22.9	1.3	314	18.9	0.7	1135	19.8	2.0	93	18.8	0.6	1295	19.1	2.3	94	18.1	1.3	155	19.1	2.0	56	14.2	2.5	32	20.7	2.7	37	19.4	1.6	128			
Exactly 2 ⁴	13.7	0.9	203	9.6	0.5	678	16.2	1.7	75	10.3	0.5	828	14.7	1.8	75	13.9	1.0	134	14.0	2.4	38	16.5	2.4	35	19.4	2.7	37	15.1	1.5	115			

Exactly 3 ⁴	12.1	0.9	162	5.2	0.3	403	14.4	1.9	70	6.2	0.3	536	13.0	2.1	68	14.9	1.4	133	15.8	2.5	46	12.8	2.3	31	12.2	2.7	24	14.3	1.5	102
Exactly 4 ⁴	6.9	0.8	103	3.3	0.3	252	10.4	1.6	47	4.3	0.3	365	11.5	1.4	56	11.8	1.4	104	11.5	1.6	33	15.6	3.8	33	8.8	3.0	14	10.8	1.2	80
Exactly 5 ⁴	4.7	0.6	62	1.8	0.2	137	6.0	1.1	27	2.3	0.2	196	5.5	1.1	26	6.5	1.3	57	5.8	1.4	17	7.9	1.9	18	6.1	1.8	10	6.0	1.1	41
6 or more disorders ⁴	5.8	0.8	83	2.2	0.2	174	12.9	2.1	57	3.3	0.2	284	13.6	1.9	64	11.8	1.1	114	17.2	2.8	43	17.5	2.8	37	6.9	2.2	14	9.6	1.0	73
(n) ¹	(1462)			(7820)			(469)			(8813)			(507)			(955)			(284)			(223)			(185)			(770)		

Note. GAD = Generalized Anxiety Disorder; PTSD = Post-Traumatic Stress Disorder; SAD = Separation Anxiety Disorder; MDD = Major Depressive Disorder; ODD = Oppositional Defiant Disorder; ADHD = Attention Deficit Hyperactivity Disorder; IED = Intermittent Explosive Disorder.

¹Number of cases with the outcome variable

²Numerator N. Number of cases with each DSM-IV disorder at least one year prior to the suicidal behavior specified in the column header.

³Percent represents the percentage of people with each DSM-IV disorder at least one year prior to the suicidal behavior specified in the column header. For example: the first cell is the % of those with suicide ideation who had Panic Disorder prior to their first onset of suicide ideation.

⁴Prevalences assessed in the Part II sample (n=5692)

⁵Prevalences assessed in the Part II sample among respondents in the age range 18-44 (n=3197).

Appendix table 2. Multivariate survival models of interactive associations between type-number of temporally primary lifetime DSM-IV/CIDI disorders in predicting the subsequent first occurrence of suicidal behaviors (ideation, attempt, plan among ideators, attempt among planners, attempt among ideators without a plan) in the Part II NCS-R sample (n = 5692)¹

	Among Total Sample				Among Ideators					
	Ideation		Attempt		Plan		Planned Attempt		Unplanned Attempt	
	OR (95% CI)	χ^2	OR (95% CI)	χ^2	OR (95% CI)	χ^2	OR (95% CI)	χ^2	OR (95% CI)	χ^2
I. Anxiety disorders										
Panic Disorder	3.09* (1.66-5.75)*	13.5*	5.72* (2.04-16.04)*	11.7*	1.58 (0.76-3.30)	1.6	2.08 (0.71-6.09)	1.9	5.34* (1.35-21.12)*	6.1*
GAD	2.64* (1.48-4.71)*	11.5*	4.53* (2.12-9.68)*	16.1*	1.26 (0.58-2.75)	0.4	5.06* (2.17-11.85)*	14.8*	1.76 (0.41-7.63)	0.6
Specific Phobia	1.17 (0.87-1.57)	1.2	1.95* (1.31-2.90)*	11.4*	1.11 (0.73-1.68)	0.2	1.55 (0.90-2.66)	2.7	2.05* (1.21-3.48)*	7.5*
Social Phobia	2.33* (1.85-2.95)*	53.5*	3.34* (2.31-4.83)*	43.6*	1.60* (1.08-2.38)*	5.7*	2.17* (1.29-3.67)*	8.9*	0.96 (0.42-2.22)	0.0
PTSD	2.27* (1.35-3.80)*	10.3*	3.07* (1.62-5.83)*	12.6*	2.65* (1.53-4.59)*	12.8*	1.40 (0.48-4.08)	0.4	1.72 (0.58-5.07)	1.0
SAD	2.24* (1.42-3.55)*	12.6*	2.79* (1.63-4.79)*	14.8*	0.92 (0.52-1.64)	0.1	1.62 (0.72-3.67)	1.4	1.68 (0.63-4.50)	1.1
Agoraphobia	1.88 (0.77-4.57)	2.0	1.14 (0.11-12.14)	0.0	1.96 (0.24-15.99)	0.4	0.54 (0.02-13.31)	0.2	5.87 (0.79-43.57)	3.2
II. Mood disorders										
MDD	3.29* (2.46-4.39)*	68.5*	3.36* (1.83-6.14)*	16.3*	1.10 (0.63-1.93)	0.1	1.38 (0.68-2.78)	0.8	1.45 (0.66-3.17)	0.9
Dysthymia	1.58 (0.77-3.27)	1.6	0.57 (0.09-3.61)	0.4	1.21 (0.34-4.33)	0.1	0.34 (0.05-2.50)	1.2	0.20 (0.01-5.67)	0.9
Bipolar Disorder	3.94* (2.33-6.65)*	27.8*	6.29* (2.36-16.72)*	14.4*	2.93* (1.22-7.04)*	6.1*	2.83* (1.10-7.30)*	4.9*	4.77* (1.52-14.93)*	7.6*
III. Externalizing disorders										
ODD ⁵	2.67* (1.74-4.09)*	21.7*	2.60* (1.28-5.30)*	7.3*	0.90 (0.49-1.65)	0.1	1.01 (0.33-3.11)	0.0	2.49 (0.78-7.94)	2.5
Conduct Disorder ⁵	2.62* (1.84-3.74)*	30.0*	3.55* (1.97-6.42)*	18.8*	1.93 (0.82-4.53)	2.4	2.98* (1.54-5.76)*	11.1*	1.19 (0.37-3.89)	0.1
ADHD ⁵	2.09* (1.16-3.76)*	6.3*	4.34* (1.84-10.23)*	12.0*	2.63* (1.19-5.80)*	6.1*	2.23 (0.86-5.75)	2.9	2.24 (0.84-5.97)	2.7
IED	2.35* (1.52-3.63)*	15.8*	2.43* (1.37-4.32)*	9.8*	0.99 (0.57-1.73)	0.0	1.69 (0.91-3.14)	2.9	1.78 (0.59-5.39)	1.1
IV. Substance use disorders										
Alcohol Abuse or Dependence	2.38* (1.64-3.46)*	21.9*	4.01* (1.77-9.04)*	11.8*	1.08 (0.58-2.04)	0.1	0.93 (0.28-3.08)	0.0	4.47* (1.75-11.46)*	10.3*
Drug Abuse or Dependence	1.49 (0.81-2.74)	1.8	3.01* (1.01-8.94)*	4.2*	2.88* (1.26-6.56)*	6.7*	2.66 (0.66-10.65)	2.0	2.64 (0.68-10.20)	2.1
Continuous variable for # of other disorders ²	1.00 (0.86-1.17)	0.0	0.93 (0.75-1.15)	0.4	0.92 (0.72-1.17)	0.5	0.80 (0.59-1.10)	1.9	0.70 (0.44-1.12)	2.4
Interactions with # of other disorders										
I. Anxiety disorders										
Panic Disorder	0.83 (0.67-1.02)	3.3	0.77 (0.58-1.01)	3.7	0.91 (0.74-1.11)	0.9	0.89 (0.69-1.16)	0.8	0.65 (0.36-1.15)	2.3
GAD	0.77* (0.64-0.92)*	9.1*	0.77* (0.62-0.95)*	6.0*	0.93 (0.79-1.09)	0.9	0.76* (0.61-0.94)*	6.5*	1.06 (0.65-1.74)	0.1

Specific Phobia	1.08 (0.97-1.22)	2.0	0.94 (0.79-1.12)	0.5	1.05 (0.92-1.20)	0.6	0.99 (0.80-1.22)	0.0	0.82 (0.66-1.01)	3.7
Social Phobia	0.94 (0.83-1.07)	1.0	0.87* (0.76-0.99)*	4.6*	0.96 (0.81-1.13)	0.3	0.91 (0.77-1.07)	1.5	1.23 (0.95-1.60)	2.6
PTSD	0.92 (0.77-1.09)	1.0	0.94 (0.77-1.15)	0.4	0.85* (0.73-1.00)*	4.2*	0.96 (0.72-1.27)	0.1	1.21 (0.95-1.55)	2.5
SAD	0.88* (0.78-1.00)*	4.3*	0.83* (0.70-0.98)*	4.9*	1.12 (0.89-1.42)	1.0	0.93 (0.75-1.15)	0.5	0.91 (0.67-1.24)	0.4
Agoraphobia	0.97 (0.76-1.23)	0.1	1.07 (0.58-1.98)	0.1	0.73 (0.43-1.27)	1.3	1.11 (0.53-2.31)	0.1	0.62 (0.33-1.18)	2.3
II. Mood disorders										
MDD	0.88* (0.80-0.96)*	7.8*	0.92 (0.80-1.05)	1.6	1.13 (0.94-1.35)	1.7	1.00 (0.81-1.25)	0.0	0.93 (0.74-1.17)	0.4
Dysthymia	0.97 (0.77-1.21)	0.1	1.23 (0.80-1.90)	0.9	0.93 (0.67-1.30)	0.2	1.29 (0.81-2.04)	1.2	1.66 (0.76-3.61)	1.7
Bipolar Disorder	0.86 (0.72-1.02)	3.2	0.80 (0.63-1.02)	3.5	0.84 (0.67-1.06)	2.3	0.95 (0.73-1.22)	0.2	0.77 (0.51-1.15)	1.8
III. Externalizing disorders										
ODD ⁵	0.80* (0.68-0.93)*	9.2*	0.95 (0.76-1.18)	0.3	1.19 (0.97-1.45)	3.1	1.09 (0.78-1.51)	0.3	0.98 (0.65-1.49)	0.0
Conduct Disorder ⁵	0.87* (0.77-0.98)*	5.6*	0.87 (0.71-1.07)	1.8	0.80* (0.65-0.98)*	4.7*	0.85 (0.69-1.04)	2.6	1.42 (0.98-2.06)	3.6
ADHD ⁵	0.88 (0.72-1.07)	1.7	0.75* (0.57-0.99)*	4.4*	0.79 (0.58-1.09)	2.2	0.86 (0.63-1.18)	0.9	0.97 (0.72-1.29)	0.1
IED	0.91 (0.78-1.07)	1.4	0.92 (0.76-1.11)	0.8	1.12 (0.97-1.29)	2.3	1.03 (0.83-1.27)	0.1	0.80 (0.58-1.10)	2.0
IV. Substance use disorders										
Alcohol Abuse or Dependence	0.93 (0.80-1.08)	1.0	0.87 (0.69-1.10)	1.4	1.01 (0.83-1.22)	0.0	1.13 (0.77-1.64)	0.4	0.92 (0.75-1.14)	0.6
Drug Abuse or Dependence	0.92 (0.77-1.09)	1.1	0.80 (0.59-1.09)	2.1	0.88 (0.71-1.08)	1.6	0.85 (0.59-1.23)	0.8	0.61* (0.42-0.88)*	7.4*
df interaction test ³		203.8 *		112.0 *		44.4 *		32.5*		43.4 *
(n) ⁴	(5692)		(5692)		(1346)		(504)		(842)	

Note. GAD = Generalized Anxiety Disorder; PTSD = Post-Traumatic Stress Disorder; SAD = Separation Anxiety Disorder; MDD = Major Depressive Disorder; ODD = Oppositional Defiant Disorder; ADHD = Attention Deficit Hyperactivity Disorder; IED = Intermittent Explosive Disorder.

*Significant at the .05 level, two-sided test

¹Each column includes a separate multivariate model in survival framework, with all rows as predictors controlling for the following covariates: age, age-squared, age cohort, sex, and person-year.

²Number of other disorders represents the number of disorders in addition to the first one counted, so cases with 1 disorder will have 0 other disorders, cases with 2 disorders will have 1 other disorders, and so on. This is used in the multivariate model because the individual disorders are also in the model, and including a continuous number of disorder from 0,1,2,... will cause the model to overfit.

³Multi-df tests assess the overall interactions. This group effect test only includes all of the interactions and not all of the independent variables.

⁴Denominator sample size of the models.

⁵Impulse disorders assessed in ages 18-44. In multivariate models, impulse disorders coded to 0 or "no" for part II cases older than 44.