

Supplemental Table S1. Predictor Importance as Quantified by Mean Decrease in Accuracy for the Prediction of Suicide Ideation at Follow-up

	Suicide Ideation			Suicide Attempt		
	T2	T3	T3	T2	T3	T4
Aborted attempt, past month	0.37	0.37	-0.88	4.84	4.06	5.66
Aborted attempt, past year	2.20	2.87	0.48	4.26	4.94	2.87
ACSS-FAD	10.03	7.47	5.43	1.08	0.96	0.79
Age	1.82	0.48	1.63	1.99	5.58	2.52
All past suicide attempts, average confidence of lethality	3.04	4.49	3.55	2.49	6.08	7.91
AMP-Positive	0.41	3.65	-0.27	1.73	0.92	3.08
AMP-Suicide, High Intensity	2.04	1.48	1.26	1.84	3.37	2.62
AMP-Suicide, Low Intensity	2.65	3.25	5.39	3.28	2.01	3.90
AMP-Suicide, Moderate Intensity	2.09	3.20	3.17	2.17	1.97	3.81
ASQ-Abandonment	3.41	2.37	1.47	1.31	-1.73	0.03
ASQ-Anxiety	1.54	0.35	0.84	-0.04	2.09	-1.81
ASQ-Desperation	2.94	6.09	4.72	1.36	1.34	0.59
ASQ-Guilt	0.44	-0.49	0.46	0.87	2.78	-1.68
ASQ-Hopelessness	6.43	10.89	5.29	2.13	3.72	-0.71
ASQ-Humiliation	-0.13	2.05	-0.36	0.01	-1.16	0.15
ASQ-Loneliness	0.55	0.89	2.28	-0.88	0.72	0.91
ASQ-Rage	-0.74	-0.21	-0.91	0.52	1.83	0.73
ASQ-Self-hate	3.57	2.75	2.21	5.80	2.74	2.69
Most recent suicide attempt, confidence of lethality	3.35	5.47	2.74	4.08	6.98	5.45
Most recent suicide attempt, injury severity	1.74	1.05	0.35	1.31	2.90	2.50
Self-predicted likelihood of future suicide attempt	18.49	20.17	21.05	4.49	4.36	4.04
Nonfatal suicide attempt, past month	-0.97	1.20	-1.62	5.21	12.27	9.76
Nonfatal suicide attempt, lifetime	-0.03	2.65	0.30	0.79	2.10	2.52
Nonfatal suicide attempt, past year	1.95	0.80	2.26	3.35	6.28	9.46
BAM	8.07	-0.10	2.61	2.91	2.03	2.55
BSI	15.88	13.93	13.16	3.16	7.14	3.09
BSS-Desire	NA	NA	NA	1.66	6.95	10.63
Self-cutting, past month	1.40	1.81	0.69	-0.54	1.58	5.62
Self-cutting, past year	-0.35	-0.14	2.00	-1.08	5.15	1.86
DWLS-Other	5.14	7.01	4.54	1.26	0.68	4.33
DWLS-Self	14.10	13.54	13.07	2.73	2.86	5.86
Employment Status	0.83	0.12	-1.60	-0.77	0.11	1.00
Explicit Attitude Ratings, Positive Images	-0.98	-0.78	-0.21	-1.12	-1.67	0.66
Explicit Attitude Ratings, Suicide Images	0.02	1.32	-0.69	0.47	-0.68	-0.46
Gender	-0.80	-0.21	-0.56	-0.65	-1.02	-0.57

Interrupted Attempt, past month	-0.45	0.96	0.79	-1.28	0.27	3.95
Interrupted Attempt, past year	0.24	0.48	-2.48	2.15	1.28	5.81
ISI	7.63	9.89	2.33	0.57	-0.46	-1.08
Multiple Attempter	1.45	2.81	1.40	3.61	5.85	5.83
Self-reported Desire to Stop NSSI	4.50	1.03	0.98	-1.78	2.55	0.76
Self-predicted likelihood of future NSSI	3.97	2.24	4.33	1.98	0.91	2.45
NSSI, lifetime	0.84	-0.53	0.28	0.81	0.44	1.87
Sexual Orientation	0.14	-1.49	0.39	2.06	1.26	0.40
Suicidal intent	4.34	3.72	6.11	0.49	0.61	4.00
Self-predicted likelihood of future suicide plan	18.36	16.37	18.02	3.77	4.62	3.98
Suicide plan, past month	18.50	15.74	16.55	0.49	2.86	7.40
Suicide plan, lifetime	-1.48	0.37	1.35	2.12	-1.00	1.28
Suicide preparatory behaviors, confidence of future attempt	5.49	4.44	4.40	3.78	6.51	4.14
Suicide preparatory behaviors, lifetime	3.43	4.75	4.04	2.12	3.89	3.67
Race	0.14	2.21	0.54	0.95	2.16	4.93
Most severe suicide attempt, confidence of lethality	3.30	6.04	3.02	2.75	5.72	6.72
Most severe suicide attempt, injury severity	1.14	1.52	2.01	3.89	2.74	4.22

Note. ACSS-FAD = Acquired Capability for Suicide Scale – Fearlessness about Death; AMP = Affect Misattribution Procedure; ASQ = Affective States Questionnaire; BAM = Brief Agitation Measure; BSI = Brief Symptoms Inventory; BSS = Beck Scale for Suicide Ideation; DWLS = Disgust with Life Scale; ISI = Insomnia Severity Index; NSSI = Nonsuicidal self-injury. * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$; NA = not applicable; predictor not included.