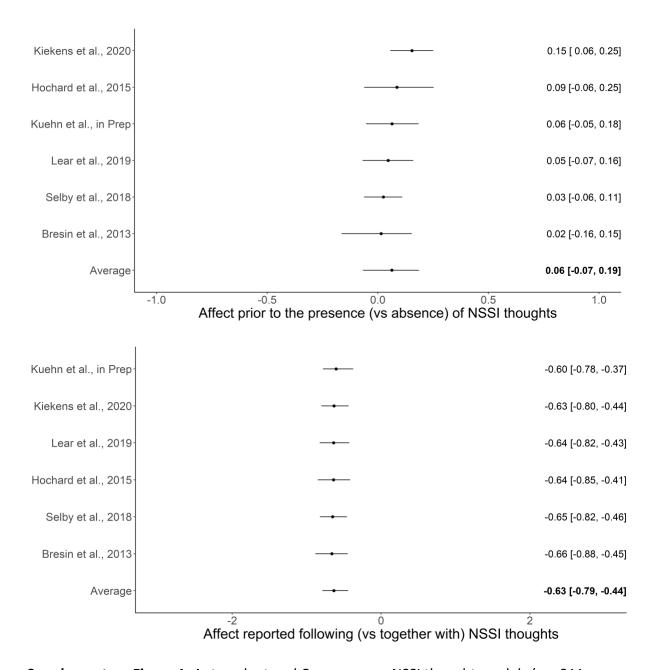
Supplementary Information for Nature Human Behavior:

Manuscript Title: A meta-analysis on the affect regulation function of real-time self-injurious thoughts and behaviors

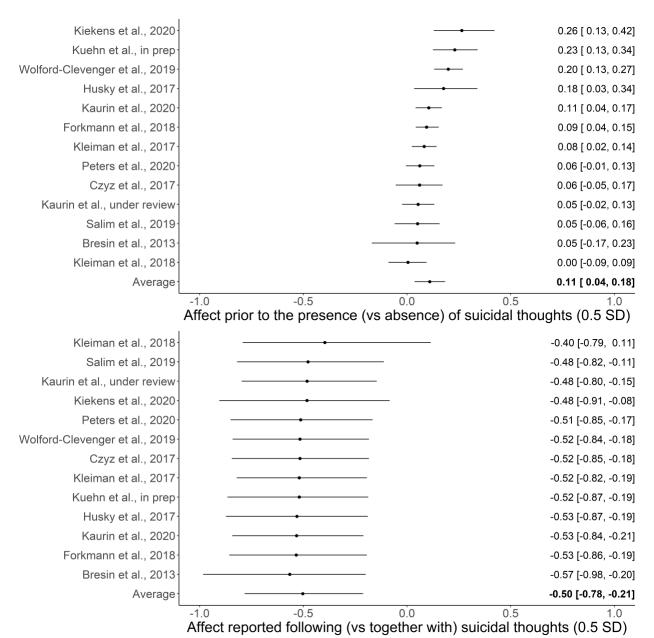
Authors: Kevin S. Kuehn, M.S.^{1*}, Jonas Dora, Ph.D.¹, Melanie S. Harned, Ph.D.^{2,3}, Katherine T. Foster, Ph.D.¹, Frank Song, B.A.¹, Michele R. Smith, M.S.¹, Kevin M. King, Ph.D.¹

- 1. Department of Psychology, University of Washington, Seattle, WA, USA
- 2. Department of Psychiatry and Behavioral Sciences, University of Washington, Seattle, WA, USA
- 3. Veterans Affairs Puget Sound Health Care System, Seattle, WA, USA

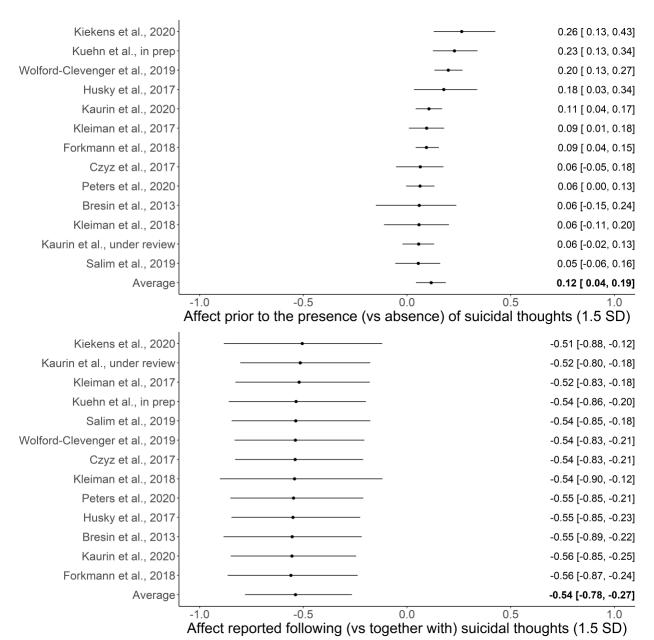
^{*}Email correspondence should be sent to kevinskuehn@gmail.com



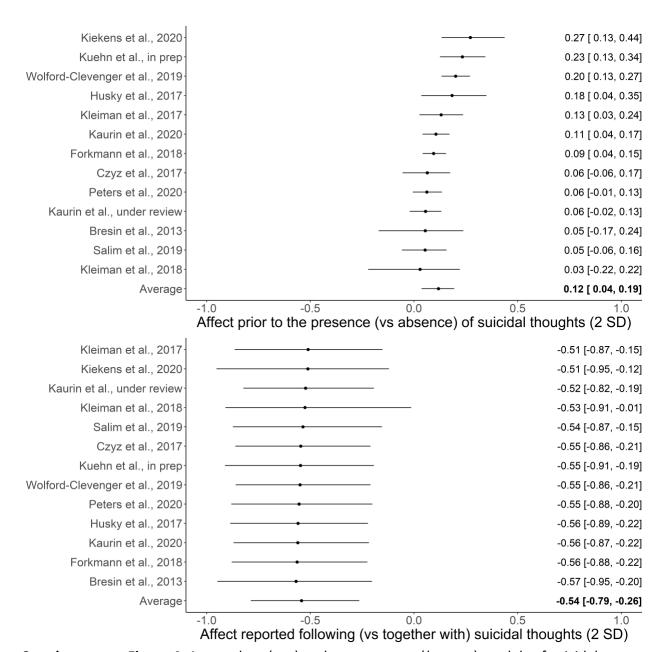
Supplementary Figure 1: Antecedent and Consequence NSSI thought models (n = 311 participants nested in 6 studies). Data presented as random effects estimates from a three-level model +/- 95% credible interval.



Supplementary Figure 2. Antecedent (*top*) and consequence (*bottom*) models of suicidal thoughts in which suicidal thoughts are determined to be present in Kleiman et al., 2017 and Kleiman et al., 2018 when higher than $\frac{1}{2}$ a standard deviation of an individual's own average level of suicidal thoughts (n = 1108 participants nested in 13 studies). Data presented as random effects estimates from a three-level model +/- 95% credible interval.



Supplementary Figure 3. Antecedent (*top*) and consequence (*bottom*) models of suicidal thoughts in which suicidal thoughts are determined to be present in Kleiman et al., 2017 and Kleiman et al., 2018 when higher than 1.5 standard deviations of an individual's own average level of suicidal thoughts (n = 1108 participants nested in 13 studies). Data presented as random effects estimates from a three-level model +/- 95% credible interval.



Supplementary Figure 4. Antecedent (top) and consequence (bottom) models of suicidal thoughts in which suicidal thoughts are determined to be present in Kleiman et al., 2017 and Kleiman et al., 2018 when higher than 2 standard deviations of an individual's own average level of suicidal thoughts (n = 1108 participants nested in 13 studies). Data presented as

random effects estimates from a three-level model +/- 95% credible interval.

Author (Year)	N	Outcome	Duration	Sampling Freq	Average Age	% Female	% White
Al-Dajani & Uliaszek ⁷⁶	39	Suicidal Thoughts	14	4	30.85	66.70	48.70
Ammerman et al. ⁷⁷	51	NSSI Behaviors	7	4	28.82	74.5	33.00
Andrewes et al. ^{78,79}	107	NSSI Thoughts; NSSI Behavior	6	6	18.10	83.20	91.00
Anestis et al. ⁸⁰	127	NSSI Behavior	14	6	25.34	100	96.9
Armey et al. ²⁸	36	NSSI Behavior	7	6	18.70	75.00	NA
Armey et al. ⁸¹	151	Suicidal Thoughts	21	5	40.88	62.00	90.6
Ben-Zeev & Young ⁸²	51	Suicidal Thoughts	7	5.85	36.70	78.40	64.7
Ben-Zeev, Young, & Depp ⁸³	30	Suicidal Thoughts	7	8	39.30	76.7	66.7
Bresin, Carter, & Gordon ²⁹	67	NSSI Thoughts; NSSI Behavior; Suicidal Thoughts	14	1	19.58	56.71	NA
Briones-Buixassa et al. ⁸⁴	64	NSSI Behavior	15	3	22.12	87.50	NA
Cobo et al. ⁸⁵	36	Suicidal Thoughts	196	2-4	41.70	86.10	NA
Crowe et al. ⁸⁶	64	NSSI Thoughts; Suicidal Thoughts	6	10	42.95	56.25	98.44

Czyz et al. ^{64,87,88}	34	NSSI Urges; NSSI Behavior; Suicidal Thoughts	28	1	15.50	76.50	85.30
Czyz et al. ^{89,90}	78	NSSI Behavior; Suicidal Thoughts	28	1	15.19	67.90	83.30
Dillon et al. ⁹¹	40	NSSI Urges; NSSI Behavior	28	3	46.65	27.50	45.00
Ellison ⁹²	11	NSSI Thoughts; Suicidal Thoughts	21	6	37.00	81.80	81.80
Forkmann et al. ^{65, 93-95}	74	Suicidal Thoughts	6	10	37.60	71.6	NA
Glenn et al. ^{96,97}	53	NSSI Thoughts; NSSI Behaviors; Suicidal Thoughts; Suicidal Behaviors	28	5	14.85	64.20	77.40
Gratch et al ⁹⁸	51	Suicidal Thoughts	7	6	36.30	56.00	56.30
Hallard et al. ⁹⁹	24	Suicidal Thoughts	6	7	35.30	37.33	100
Hepp et al. 100,101	51	NSSI Thoughts; NSSI Behaviors	15	5	23.92	100	NA
Hochard et al. 42,43	72	NSSI Thoughts; NSSI Behaviors	5	2	21.04	88.89	NA

Houben et al. ⁴⁵	30	NSSI Behaviors	8	10	29.03	87.00	NA
Humber et al. ¹⁰⁶	21	Suicidal Thoughts	6	6	36.00	0.00	86.00
Husky et al. ⁶⁶	42	Suicidal Thoughts	7	5	37.90	73.80	NA
Kaurin et al. ⁶⁷	191	Suicidal Thoughts	21	6	33.43	78.00	74.00
Kaurin et al. ^{68, 103}	193	Suicidal Thoughts	21	6	33.32	79.00	74.00
Kautz et al. ¹⁰⁴	51	NSSI Thoughts	10	3	20.00	91.20	67.30
Kiekens et al. ³⁰	30	NSSI Thoughts; NSSI Behaviors	12	8	20.10	80.00	NA
Kleiman et al. ^{41,105,106}	54	Suicidal Thoughts	28	4	23.24	79.60	72.00
Kleiman et al. ^{9,46,107}	43	Suicidal Thoughts	28	1	23.28	78.00	73.00
Kuehn et al., In Prep	60	NSSI Thoughts; NSSI Behaviors; Suicidal Thoughts	14	5	18.58	76.67	53.33
Law et al. ¹⁰⁸	248	Suicidal Thoughts	14	5	43.90	67.30	59.70
Lear et al. ⁶⁹	47	NSSI Thoughts; NSSI Urges; NSSI Behaviors	14	1	19.87	91.50	80.90
Links et al. ¹⁰⁹	82	Suicidal Thoughts	21	6	33.50	82.90	NA
Muehlenkamp et al. ⁷⁰	131	NSSI Behaviors	14	6	25.30	100.00	96.90
Oquendo et al. ¹¹⁰	51	Suicidal Thoughts	7	6	37.30	59.00	75.50

Rogers ¹¹¹	237	Suicidal Thoughts; Suicidal Behaviors	14	6	27.12	61.60	86.90
Rourk et al. ¹¹²	21	NSSI Thoughts; Suicidal Thoughts	14	4	28.02	85.70	90.50
Peters al. ⁴⁰	39	Suicidal Thoughts	12	3	36.30	69.20	NA
Porras-Segovia et al. ¹¹³	1709	Suicidal Thoughts	60	4	40.70	70.20	NA
Salim et al. ⁴⁴	89	Suicidal Thoughts Suicidal Behaviors	5	1	24.00	100	81.20
Santangelo et al. ⁷¹	46	NSSI Behaviors	4	12	15.88	100	NA
Koenig et al. ¹¹⁴	73	NSSI Behaviors	3	12	15.48	100	NA
Scala et al. ¹¹⁵	54	NSSI Urges	21	6	30.58	86.00	86.00
Selby, Franklin, Carson-Wong, & Rizvi ⁷²	47	NSSI Behaviors	14	5	28.19	66.00	64.00
Selby, et al. ^{73, 116-118}	47	NSSI Thoughts; NSSI Behaviors; NSSI Behaviors	14	5	19.07	68.10	38.30
Snir et al. ¹¹⁹	152	NSSI Urges; NSSI Behaviors	21	5	32.92	69.70	54.61
Stanley et al. ^{120,121}	50	NSSI Behaviors; Suicidal Thoughts	7	6	30.60	86.00	56.00
Stenzel et al. ¹²²	61	NSSI Urges; NSSI Behaviors	7	5	24.21	88.50	NA

Turner et al. 123,124	60	NSSI Urges; NSSI Behaviors	14	1	23.25	85.00	53.00
Vansteelandt et al. ⁷⁴	32	NSSI Behaviors	8	10	28.00	84.00	NA
Victor & Klonsky ¹²⁵	84	NSSI Behaviors	14	1	23.30	71.40	28.60
Victor et al. ¹²⁶	62	NSSI Thoughts; Suicidal Thoughts	21	7	22.00	100	24.19
Vine et al. ¹²⁷	162	NSSI Thoughts; Suicidal Thoughts	4	10	12.03	47.00	40.00
Wolford-Clevenger et al. ^{75,128}	206	NSSI Behaviors; Suicidal Thoughts; Suicide Attempts	89	1	19.11	72.82	82.04
Wolford-Clevenger ¹²⁹	38	Suicidal Thoughts	30	1	28.63	70.60	84.20
Zaki et al. ¹³⁰	80	NSSI Urges; NSSI Behaviors	21	5	31.26	83.50	50.00

Supplementary Table 2. Methodological characteristics of studies included in meta-analysis

Author (Year)	NA timescale	SITB wording/items	Timing	Daily diary or EMA	Sampling strategy
Armey et al. ²⁸	"How are you currently feeling"	NSSI only assessed at event- contingent samples	Retrospective	EMA	Signal- and event- contingent
Bresin et al. ²⁹	"How did you generally feel today"	"Today, how strong was your urge to harm yourself without wanting to die" [NSSI urges]	Momentary	Daily diary	Signal-contingent
		"Did you actually harm yourself today" [NSSI behaviors]			
Czyz et al. ⁶⁴	"In the past 24 hours, how much did you feel"	"At any point in the last 24 hr, did you have any thoughts of killing yourself?' [Suicidal thoughts]	Momentary	Daily diary	Signal-contingent
Forkmann et al. ⁶⁵	"Currently"	"Currently"	Momentary	EMA	Signal-contingent
Hochard et al. ⁴²	Pre- and post-sleep mood	"Today/since waking up, have you had thoughts of deliberately injuring yourself?" [NSSI thoughts]	Momentary	EMA	Interval- contingent (pre/post sleep)
		"Today/since waking up, have you deliberately injured yourself?" [NSSI behaviors]			
Houben et al. ⁴⁵	"How much are you currently feeling"	"Since the last beep, have you self-harmed" [NSSI behaviors]	Retrospective	EMA	Signal-contingent
Husky et al. ⁶⁶	"What degree of intensity would best describe your current feelings"	"Since the previous assessment"	Retrospective	EMA	Signal-contingent

Supplementary Table 2 (continued). Methodological characteristics of studies included in meta-analysis

Author (Year)	NA timescale	SITB wording/items	Timing	Daily diary or EMA	Sampling strategy
Kaurin et al. ⁶⁷	"How ADJECTIVE did you feel right now?"	"Have you wished you were dead or wished you could go to sleep and not wake up?"	Momentary	EMA	Signal-contingent
Kaurin et al. ⁶⁸	"How [ADJECTIVE] did you feel during the interaction" (NA assessed only in response to a stressful interpersonal conflict)	"Since the interaction"	Momentary	EMA	Interval- contingent (interpersonal conflict)
Kiekens et al ³⁰	"Right now, I feel [emotion]"	"Right now, I think about self- injuring without suicidal intent" [NSSI thoughts]	Momentary	EMA	Signal-contingent
		"Have you self-injured without wanting to die since the last beep?" [NSSI behaviors]	Retrospective		
Kleiman et al. ⁴¹	"Currently, how much are you feeling"	"How intense is your desire to kill yourself right now?"	Momentary	EMA	Signal- and event- contingent
Kleiman et al. ⁹	"How much did you feel"	"Today, how much did you wish to live"	Momentary	Daily diary	Signal-contingent
Kuehn et al., In Prep	"In the past 10 minutes, how much have you felt"	"Within the past 30 minutes, how strong has your intention been to kill yourself" [suicidal thoughts]	Momentary	EMA	Signal- and event- contingent

Supplementary Table 2 (continued). Methodological characteristics of studies included in meta-analysis

Author (Year)	NA timescale	SITB wording/items	Timing	Daily diary or EMA	Sampling strategy
Lear et al. ⁶⁹	"To what extent [you] have felt this way today"	"Since the last diary entry, did you feel an urge to self-injure?"	Momentary	Daily diary	Signal-contingent
Muehlenkamp et al. ⁷⁰	"Since the last beep"	"Since the last beep"	Momentary	EMA	Signal-, event-, and interval- contingent
Peters et al. ⁴⁰	"How do you feel right now"	"How suicidal are you right now"	Momentary	EMA	Signal-contingent
Salim et al. ⁴⁴	"In the past 24-hours"	"Today have you thought about or attempted to kill yourself"	Momentary	Daily diary	Signal-contingent
Santangelo et al. ⁷¹	"At this moment I feel"	"In the past hour"	Retrospective	EMA	Signal-contingent
Selby et al. ⁷²	"Currently, I am feeling"	"Since the last assessment"	Retrospective	EMA	Signal-contingent
Selby et al. ⁷³	"Right now"	"Since the last assessment"	Retrospective	EMA	Signal- and event- contingent
Vansteelandt et al. ⁷⁴	"At this moment, I feel"	"Since the previous signal"	Retrospective	EMA	Signal-contingent
Wolford-Clevenger et al. ⁷⁵	"From the time you woke up to the time you went to bed"	"From the time you woke up to the time you went to bed"	Momentary	Daily diary	Signal-contingent

Supplementary Table 3. Measurement and sample characteristics of studies included in meta-analysis

Author (Year)	N	NA measure	SITB measure	Frequency of SITB	Compliance Rate	BPD (Y/N)
Armey et al. ²⁸	36	18-items (e.g., Afraid, Disgusted, Guilty, Scornful, Hostile, etc.; 1-5)	Severity of NSSI (none, not at all, a little, somewhat, very, or extremely). Dichotomized > 0 = Presence of NSSI	0.11	0.38	No
			"Did you experience a thought/urge about NSSI?" (Y/N)	0.12		
Bresin et al. ²⁹	67	10 items (sample distressed, guilt, angry at self, sadness, lonely; 0-5)	"Did you engage in NSSI?" (Y/N)	0.01	0.66	No
			"Did you think about killing yourself?" (Y/N)	0.04		
Czyz et al. ⁶⁴	34	3 items (Miserable, Angry, Happy	"At any point in the last 24h, did you harm yourself or hurt your body on purpose without the intention to die?" (Y/N)	0.04	0.69	No
Czyz et al.	34	[reverse coded]; 1-5)	"At any point in the last 24h, did you have any thoughts of killing yourself? (Y/N) – also assessed frequency and duration of SI (continuous)	0.17		
Forkmann et al. ⁶⁵	74	6-items (Depressed, hopeless and anxious; 0-4),	Four items ("Life is not worth living", "There are more reasons to die", "I want to die", "I think about taking my life")	0.68	0.36	No
Hochard et al. ⁴²	30	5-items (not specified, 1-5).	"Have you had thoughts of deliberately injuring yourself" (Y/N)	0.08	0.91	No
			"Have you deliberately injured yourself?" (Y/N)	0.08		
Houben et al. ⁴⁵	30	6-items (Anger, depressed, anxiety, stressed, happy, relaxed; 0-100)	Did you engage in NSSI? (Y/N)	0.04	0.65	Yes

Supplementary Table 3 (continued). Measurement and sample characteristics of studies included in meta-analysis

Author (Year)	N	NA measure	SITB measure	Frequency of SITB	Compliance Rate	BPD (Y/N)
Husky et al. ⁶⁶	42	3-items (sad, hopeless, anxious; 1-7)	Since the last assessment, did you experience any 'negative thoughts? If yes, "did the content of your negative thought include suicidal ideation/self-harm" (Y/N)	0.04	0.74	No
Kaurin et al. ⁶⁷	193	4 -items (Nervous, Sad, Guilty, Ashamed; 1-5)	6-Y/N items ("Have you wished you were dead or wished you could go to sleep and not wake up?", "Have you actually had any thoughts of killing yourself?", "Have you been thinking about how you might do this?", "Have you had these thoughts and had some intention of acting on them?", "Have you started to work out or worked out the details of how to kill yourself?", "Do you intend to carry out this plan?". Summed	0.14	0.74	No
Kaurin et al. ⁶⁸	191	4-items (Nervous, Sad, Irritated, Angry; 0-100)	Two questions: "Since the interaction," "Have you wished you were dead or wished you could go to sleep and not wake up?" and "Have you actually had any thoughts of killing yourself?" (Y/N)	0.04	0.74	Yes
Kiekens et al ³⁰	30	6-items (Stressed, irritated, anxious, sad, hopeless, insecure; 0-6)	"Right now, I think about self-injuring without suicidal intent" ($0 = \text{Not at all} - 6 = A \text{ lot}$) "Have you self-injured without wanting to die since the last beep?"	0.27 0.08	0.77	No
			Suicidal thought item not reported	0.05		

Supplementary Table 3 (continued). Measurement and sample characteristics of studies included in meta-analysis

Author (Year)	N	NA measure	SITB measure	Frequency of SITB	Compliance Rate	BPD (Y/N)
Kleiman et al. ⁴¹	53	1-item (Sadness; 1-5).	3-items ("Wish to live" [reversed coded], "wish to die", "desire to die". $(0-2)$	0.16	0.64	No
Kleiman et al. ⁹	54	8-items (Afraid, agitated, angry, anxious, burdensome, hopeless, lonely, sad; 0-4)	3-items ("Desire to die by suicide, intention to die by suicide, and ability to resist suicidal urges [reverse coded])". $(0-4)$	0.17	0.48	No
Kuehn et al., In Prep 6			"Have you thought about harming yourself since the last assessment" Classified an NSSI thought if answered yes but denied NSSI behavior (below)	0.03		
	60	5-items (Sad, Fear, Anger, Shame, Guilt; 0-100)	"Have you engaged in any self-harm in the past 30 minutes" If yes, "Did you intend to die as a result" (Y/N)	0.01	0.81	No
			"What is your intent to kill yourself in this moment" 0 (None) – 4 (Severe)	0.05		
Lear et al. ⁶⁹	40	4-items (Guilty, Ashamed, Dissatisfied with self, Angry at self; 1-5).	"Since the last diary entry, did you feel an urge to self-injure?" (Y/N)	0.39	0.70	No
Lear et ai."	48		"Since the last diary entry, did you self-injure?" (Y/N) .	0.79		NO
Muehlenkamp et al. ⁷⁰	131	11-items (Afraid, lonely, irritable, ashamed, disgusted, nervous, dissatisfied with self, jittery, sad, distress, and angry at self; 1-5)	"Did you engage in any of the following" ("I cut myself", "I scratched myself", "I burned myself", "I hit myself", and "I banged my head") (Y/N)	0.01	0.78	Yes
Peters et al. ⁴⁰	39	2-items (Depressed, Angry; 0-100)	"How suicidal are you right now?" 0 - 100	0.79	0.64	Yes

Supplementary Table 3 (continued). Measurement and sample characteristics of studies included in meta-analysis

Author (Year)	N	NA measure	SITB measure	Frequency of SITB	Compliance Rate	BPD (Y/N)
Salim et al. ⁴⁴	85	4-items (Depressed, hopeless, uninterested, and worried; 0 -3)	3-items ("Today, have you thought about or attempted to kill yourself?" [Y/N], "Have you told someone today that you were going to commit suicide, or that you might do it?" [Y/N], "How likely is that you will attempt suicide someday" [0 = "Never" – 6 "Very likely"])	0.61	0.84	No
Santangelo et al. ⁷¹	73	2-items (Discontent, Tense; 0 – 100)	At this moment, how strong is your urge to self-injure?" $(0-100)$	0.02	0.81	No
Selby et al. ⁷²	47	5-items (Anger, fear, ashamed, worried, sad; 1-10)	"Since the last assessment, did self-injure? (Y/N)"	0.01	0.95	No
Selby et al. ⁷³	47	11-items (Overwhelmed, sad, frustrated, angry, rejected, anxious, lonely, numb, guilty, ashamed, embarrassed; 0 -10)	"Since the last assessment, did you have any thoughts to self-injure" (Y/N) "Since the last assessment, did self-injure? (Y/N)"	0.16 0.04	1.00	No
Vansteelandt et al. ⁷⁴	32	2-items (Stressed, depressed; 0 – 100).	"Since the previous signal, I have engaged in automutilation" (Y/N)	0.04	0.64	Yes
Wolford-Clevenger et al. ⁷⁵	206	2-items (Depressed and angry; 0-32)	"The daily surveys assessed constructs similar to the baseline survey but in a briefer format, including interpersonal needs, alcohol and drug use, perceived capability for suicide, suicidal thoughts and behaviors, non-suicidal self- injury , emotional states, and perpetration and victimization of aggression"	0.01 0.04 <0.01	0.40	No

Supplementary Table 4: Moderation results in antecedent and consequence NSSI thought analyses.

NSSI Thought Antecedent					
Moderator					
	β (SE)	95% CI LB	95% CI UB		
# of prompts	0.03 (0.03)	-0.03	0.07		
# of hours	-0.01 (0.01)	-0.02	0.01		
Frequency of SITB	0.11 (0.35)	-0.60	0.76		
Compliance	-0.07 (0.37)	-0.77	0.68		
% women	0.23 (0.35)	-0.50	0.89		
% white	0.03 (0.38)	-0.75	0.77		
Mean age	0.06 (0.08)	-0.11	0.22		
BPD (1 = Yes; 0 = No)	NA	NA	NA		
Sampling $(1 = EMA; 0 = Daily Diary)$	0.10(0.14)	-0.17	0.37		
Timing (1 = Momentary; 0 = Retrospective)	-0.07 (0.16)	-0.39	0.26		
NSSI Tho	ought Consequenc	e			
	β (SE)	95% CI LB	95% CI UB		
# of prompts	0.00(0.04)	-0.08	0.10		
# of hours	-0.00 (0.01)	-0.03	0.02		
Frequency of SITB	-0.05 (0.38)	-0.80	0.69		
Compliance	0.02 (0.39)	-0.74	0.74		
% women	0.18 (0.39)	-0.60	0.93		
% white	0.01 (0.44)	-0.89	0.87		
Mean age	0.02 (0.13)	-0.23	0.26		
BPD $(1 = Yes; 0 = No)$	NA	NA	NA		
Sampling $(1 = EMA; 0 = Daily Diary)$	-0.03 (0.18)	-0.41	0.32		
Timing $(1 = Momentary; 0 = Retrospective)$	-0.12 (0.19)	-0.50	0.27		

Notes. All coefficients reflect the product term between NSSI thoughts and the respective moderators. No studies that measured NSSI thoughts included participants diagnosed with BPD. β =average effect size (fixed effect from three level model); 95% credible interval LB = lower bound of the 95% credible interval; 95% CI UB = upper bound of the 95% credible interval.

Supplementary Table 5: Comparing average ES with and without Hochard et al. (2015).

Hochard et al. (2015) Included						
-	k	ß	SE	95% CI		
NSSI thoughts ant	6	0.06	0.06	-0.07 – 0.19		
NSSI thoughts con	6	-0.63	0.09	-0.79 - 0.44		
NSSI behaviors ant	14	0.20	0.06	0.09 - 0.31		
NSSI behaviors con	14	-0.47	0.14	-0.730.19		
Hochard et al. (2015) Excluded						
	k	В	SE	95% CI		
NSSI thoughts ant	5	0.06	0.09	-0.14 - 0.22		
NSSI thoughts con	5	-0.64	0.10	-0.82 - 0.40		
NSSI behaviors ant	13	0.21	0.06	0.08 - 0.33		
NSSI behaviors con	13	-0.45	0.15	-0.740.16		

Supplementary Table 6: Comparing average ES with and without Salim et al. (2019)

Salim et al. (2019) Included					
	k	В	SE	95% CI	
Suicidal thoughts A	13	0.11	0.04	0.03 - 0.19	
Suicidal thoughts C	13	-0.52	0.14	-0.79 – -0.23	
Salim et al. (2019) Excluded					
	k	ß	SE	95% CI	
Suicidal thoughts A	12	0.12	0.04	0.03 - 0.20	
Suicidal thoughts C	12	-0.55	0.14	-0.82 - 0.26	

Supplementary Table 7: Comparing average ES excluding NSSI thoughts and urges

NSSI Urges Included					
	k	В	SE	95% CI	
NSSI thoughts A	6	0.06	0.06	-0.07 - 0.19	
NSSI thoughts C	6	-0.63	0.09	-0.79 – -0.44	
NSSI Urges Excluded					
	k	ß	SE	95% CI	
NSSI thoughts A	5	0.07	0.09	-0.12 - 0.24	
NSSI thoughts C	5	-0.62	0.09	-0.83 – -0.29	

Supplementary Table 8: Comparing average ES controlling for autoregressive effects

Main Antecedent Models						
	k	ß	SE	95% CI		
NSSI thoughts	6	0.06	0.06	-0.07 - 0.19		
NSSI behaviors	14	0.20	0.06	0.09 - 0.31		
Suicidal thoughts	13	0.11	0.04	0.03 - 0.19		
C	ontroll	ing for SI	TB at t-1			
	k	В	SE	95% CI		
NSSI thoughts	6	0.06	0.07	-0.08 - 0.19		
NSSI behaviors	14	0.18	0.06	0.07 - 0.30		
Suicidal thoughts	13	0.12	0.04	0.03 - 0.21		
N.	Main Consequence Models					
	k	ß	SE	95% CI		
NSSI thoughts	6	-0.63	0.09	-0.790.44		
NSSI behaviors	14	-0.47	0.14	-0.73 – -0.19		
Suicidal thoughts	13	-0.52	0.14	-0.79 – -0.23		
Controlling for NA at t-1						
	k	ß	SE	95% CI		
NSSI thoughts	6	-0.65	0.11	-0.830.42		
NSSI behaviors	14	-0.51	0.16	-0.820.18		
Suicidal thoughts	13	-0.65	0.17	-0.980.30		

Supplementary Table 9: Comparing average ES based on publication status

All Available Data (Unpublished Studies Included)						
	k	ß	SE	95% CI		
NSSI thoughts A	6	0.06	0.06	-0.07 - 0.19		
NSSI thoughts C	6	-0.63	0.09	-0.79 – -0.44		
NSSI behaviors A	14	0.20	0.06	0.09 - 0.31		
NSSI behaviors C	14	-0.47	0.14	-0.73 – -0.19		
Suicidal thoughts A	13	0.11	0.04	0.03 - 0.19		
Suicidal thoughts C	13	-0.52	0.14	-0.79 – -0.23		
Unpublished Studies Excluded						
	k	В	SE	95% CI		
NSSI thoughts A	5	0.06	0.09	-0.13 – 0.24		
NSSI thoughts C	5	-0.63	0.12	-0.83 – -0.37		
NSSI behaviors A	13	0.17	0.05	0.07 - 0.28		
NSSI behaviors C	13	-0.45	0.15	-0.73 – -0.14		
Suicidal thoughts A	11	0.10	0.05	0.00 - 0.20		
Suicidal thoughts C	11	-0.46	0.17	-0.77 – -0.11		