*Supplemental Table 2. Path statistics for included studies.*

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| --- | --- | --- | --- | --- | --- |
| Study | NSSI Variable | Suicide Outcome | Mediator / Moderation Construct | Analysis Type | Statistic |
| Interpersonal Theory of Suicide | | | | | |
| Chu et al., 2018 | Lifetime history (binary) | Number of lifetime SAs (continuous) | Acquired capability for suicide (Mod);  Thwarted belongingness x Perceived burdensomeness (M) | Moderated - Mediation | Index = 0.0014 |
|  | Lifetime history (binary) | Number of lifetime SAs (continuous) | Insomnia symptoms | Mediation | Indirect Effect = -0.009 |
|  | Lifetime history (binary) | Number of lifetime SAs (continuous) | Hopelessness | Mediation | Indirect Effect = -0.006 |
|  | Lifetime history (binary) | Number of lifetime SAs (continuous) | Acquired capability for suicide (M); Thwarted belongingness (Mod) | Moderated - Mediation | Indirect Effect = Not reported;  Index = 0.004 |
|  | Lifetime history (binary) | Number of lifetime SAs (continuous) | Acquired capability for suicide (M); Perceived burdensomeness (Mod) | Moderated - Mediation | Indirect Effect = Not reported;  Index = 0.002 |
| Harris et al., 2021 | Lifetime frequency (categorical: 1-10, 11-100, 100+) | Prior 28-day SA (binary) | Fearlessness about death | Mediation | Indirect Effect = 0.01 |
|  | Lifetime frequency (categorical: 1-10, 11-100, 100+) | Prior 28-day SA (binary) | Affect misattribution (suicide) | Mediation | Indirect Effect = -0.003 |
|  | Lifetime frequency (categorical: 1-10, 11-100, 100+) | Prior 28-day SA (binary) | Affective suicide image ratings | Mediation | Indirect Effect = 0.04 |
|  | Lifetime frequency (categorical: 1-10, 11-100, 100+) | Prior 2-year SA (binary) | Fearlessness about death | Mediation | Indirect Effect = .004 |
|  | Lifetime frequency (categorical: 1-10, 11-100, 100+) | Prior 2-year SA (binary) | Affect misattribution (suicide) | Mediation | Indirect Effect = 0.01 |
|  | Lifetime frequency (categorical: 1-10, 11-100, 100+) | Prior 2-year SA (binary) | Affective suicide image ratings | Mediation | Indirect Effect = -0.004 |
| Law et al., 2017 | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Pain persistence (S1) | Moderation | b = 0.03 |
|  | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Pain threshold (S1) | Moderation | b = 0.035 |
|  | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Pain tolerance (S1) | Moderation | b = 0.028 |
|  | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Pain persistence (S2) | Moderation | b = -0.001 |
|  | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Pain threshold(S2) | Moderation | b = −0.0236 |
|  | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Pain tolerance (S2) | Moderation | b = -0.025 |
|  | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Distress persistence (S2) | Moderation | b = 0.007 |
| Moseley et al., 2022+ | NSSI frequency (categorical: 0, 1, 2-3, 4-5, 6-10, 11-20, 21-50, 50+) | Number of lifetime SAs (continuous) | Autism diagnosis (Mod); Pain tolerance (M1); Fear of death by suicide (M2); Mental rehearsal of suicide plans (M3); | Moderated - Mediation | M1 Indirect Effect = 0.01;  M2 Indirect Effect = 0.02;  M3 Indirect Effect = 0.03  ModxM1 b = -0.00  ModxM2 b = -0.01  ModxM3 b = -0.02 |
| NSSI Severity / Characteristics | | | | | |
| Ammerman et al., 2016 | Lifetime frequency (categorical: 1, 2-4, 5-10, 11-20, 21-49, 50+) | Lifetime SA (binary) | Subjective pain during NSSI; Number of NSSI methods | Moderation | Mod 1: b = -0.19  Mod 2: b = -0.08 |
|  | Lifetime frequency (categorical: 1, 2-4, 5-10, 11-20, 21-49, 50+) | Lifetime SA (binary) | Number of NSSI methods | Moderation |  |
| Anestis et al., 2015 | Lifetime frequency (continuous) | Number of Lifetime SAs (continuous)  \*included those with 0 | Number of NSSI methods | Moderation | b = 0.20 |
|  | Lifetime frequency (continuous) | Number of Lifetime SAs (continuous)  \*included those with 1+ | Number of NSSI methods | Moderation | b = 0.17 |
| O’Loughlin et al., 2020 | Lifetime frequency  (continuous) | Lifetime SA  (binary) | 28 NSSI characteristics (12 of which were selected as having non-zero specific indirect effects): Swallowing Dangerous Substances, Burning Self, Antidissociation Function, Antisuicide Function, Cutting Self, Affect Regulation Function, Age of NSSI Onset, Wound Interference, Pinching Self, Autonomy Function, Toughness Function, Sensation Seeking Function | Mediation | M1: 0.055  M2: 0.044  M3: 0.035  M4: 0.033  M5: 0.016  M6: 0.012  M7: 0.016  M8: −0.004  M9: −0.009  M10: 0.002  M11: 0  M12: −0.003 |
| Mosely et al., 2022 | Scratching (binary) | Number of lifetime SAs (continuous) | Pain during NSSI (M1); Habituation to NSSI (M2); Acquired capability (M3) | Sequential Mediation | Indirect Effects:  M1: -0.04, 0.03  M2:-0.04, 0.11  M3: -0.11, 0.16  M1&2: -0.005, 0.01  M1&3: -0.01, 0.02  M2&3: -0.02, 0.09  M1,2,&3: -0.004, 0.00 |
|  | Cutting (binary) | Number of lifetime SAs (continuous) | Pain during NSSI (M1); Habituation to NSSI (M2); Acquired capability (M3) | Sequential Mediation | M1: -0.09, 0.08  M2: -0.07, 0.14  M3: -0.02, 0.24  M1&2: -0.02, 0.01  M1&3: -0.04, 0.01  M2&3: 0.01, 0.11  M1,2,&3: -0.01, 0.00 |
|  | Self-hitting (binary) | Number of lifetime SAs (continuous) | Pain during NSSI (M1); Habituation to NSSI (M2); Acquired capability (M3) | Sequential Mediation | M1: -0.08, 0.08  M2: -0.05, 0.13  M3: 0.05, 0.36  M1&2: -0.02, 0.01  M1&3: -0.04, 0.01  M2&3: 0.001, 0.09  M1,2,&3:-0.01, 0.00 |
|  | Number of methods (continuous) | Number of lifetime SAs (continuous) | Pain during NSSI (M1); Habituation to NSSI (M2); Acquired capability (M3) | Sequential Mediation | M1: -0.02, 0.01  M2: -0.04, 0.05  M3: 0.02, 0.09  M1&2: -0.003, 0.00  M1&3: -0.01, 0.00  M2&3: 0.0004, 0.03  M1,2,&3: -0.002, 0.00 |
| Cognitive and Affective Factors | | | | | |
| Anestis et al., 2013 | Lifetime frequency (continuous) | Lifetime SA lethality (continuous)a | Distress tolerance | Moderation | b = 0.21 |
|  | Number of methods (continuous) | Lifetime SA lethality (continuous)a | Distress tolerance | Moderation | b = 0.18 |
| Anestis & Selby, 2015 | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Grit | Moderation | b = 0.13 |
|  | Lifetime frequency  (continuous) | Number of lifetime SAs (continuous) | Perseverance | Moderation | b = -0.16 |
| Gratz et al., 2020 | Lifetime frequency (continuous) | Lifetime SA  (binary) | Emotion regulation self-efficacy (M1), Fearlessness about death (M2) (S1) | Mediation | M1 Indirect Effect = 0.14  M2 Indirect Effect = -0.03 |
|  | Lifetime frequency (continuous) | Lifetime SA  (binary) | Emotion regulation self-efficacy (M1), Acquired capability for suicide (M2) (S2) | Mediation | M1 Indirect Effect = 0.36  M2 Indirect Effect = 0.07 |
| Knorr et al., 2016 | Lifetime history (binary) | Lifetime SA (binary) | Lifetime major depressive disorder | Moderation | b = 0.59 |
| Muehlenkamp & Brausch, 2019 | Past-year frequency (continuous) | Prior-year SA (binary) | Resilience | Moderation | b = 0.0003 |
|  | Past-year frequency (continuous) | Prior-year SA (binary) | Life satisfaction | Moderation | b = -0.001 |
|  | Past-year frequency (continuous) | Prior-year SA (binary) | Subjective happiness | Moderation | b = -0.001 |
|  | Number of methods (continuous) | Prior-year SA (binary) | Resilience | Moderation | b = 0.005 |
|  | Number of methods (continuous) | Prior-year SA (binary) | Life satisfaction | Moderation | b = 0.013 |
|  | Number of methods (continuous) | Prior-year SA (binary) | Subjective happiness | Moderation | b = -0.010 |
| Park & Ammerman, 2023 | Lifetime frequency (continuous) | Lifetime SA (binary) | Cognitive flexibility | Moderation | b = 0.001 |
|  | Lifetime frequency (continuous) | Lifetime SA (binary) | Cognitive flexibility: Control subscale | Moderation | b = 0.001 |
|  | Lifetime frequency (continuous) | Lifetime SA (binary) | Cognitive flexibility: Alternative subscale | Moderation | b = 0.001 |
|  | Number of methods (continuous) | Lifetime SA (binary) | Cognitive flexibility | Moderation | b = 0.01 |
|  | Number of methods (continuous) | Lifetime SA (binary) | Cognitive flexibility: Control subscale | Moderation | b = 0.005 |
|  | Number of methods (continuous) | Lifetime SA (binary) | Cognitive flexibility: Alternative subscale | Moderation | b = 0.006 |
| Suicidal Thoughts and Planning | | | | | |
| Brackman et al., 2016 | Past-year frequency (continuous) | Number of lifetime SAs (continuous) | SI | Moderation | b = 0.0008 |
| Sellers et al., 2021 | Past 90-day frequency (continuous) | Prior 90-day SA (binary) | Past 90-day SP frequency | Moderation | OR = 0.66 |

*Note:* Statistic = available statistic to aid in the interpretation of the strength of the relationship; statistic presented for the interaction term for moderation analyses and of indirect effect for mediation analyses as reported by the authors; N/R = not reported; S1 = study 1; S2 = study 2; NSSI = nonsuicidal self-injury; SI = suicidal ideation; SP = suicidal plan; SA = suicide attempt; IRR = incident rate ratio; OR = odds ratio; CI = Confidence Interval; Mod = moderator; M = mediator; + = effects presented for non-autistic sample; a = 0-6 scale, with 0 being no lifetime SA and 6 being highly lethal SA)