**Supplementary Table – Regression Excluding Non-Responders**

*Hierarchical logistic regressions predicting self-harm using daily self-report.*

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| --- | --- |
|  | **Standardized Regression Weights or Odds Ratios (*n* = 3201)** |
|  |  | **Model 1** Self-Report (T1) | **Model 2** With ∆Self-Report  | **Model 3** With Demographics | **Model 4** With Prior Self-Harm & Diagnosis |
|  | Self-Report Measures at T1 **–** |  |  |  |  |
|  |  Perceived Burdensomeness | 1.04 (0.98 – 1.12) | 1.01 (0.94 – 1.09) | 0.99 (0.92 – 1.07) | 0.98 (0.91 – 1.06) |
|  |  Thwarted Belongingness | 1.02 (0.97 – 1.08) | 1.01 (0.95 – 1.07) | 1.00 (0.94 – 1.07) | 1.01 (0.94 – 1.07) |
|  |  Psychological Distress | 1.04 (1.00 – 1.09) | 1.05 (1.00 – 1.11) | 1.03 (0.97 – 1.09) | 1.02 (0.97 – 1.08) |
|  |  Wish to Live **–** |  |  |  |  |
|  |  Strong | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) |
|  |  Moderate | 1.86 (0.90 – 3.83) | 1.76 (0.82 – 3.81)  | 1.64 (0.76 – 3.54) | 1.46 (0.67 – 3.17) |
|  |  Weak | 1.46 (0.69 – 3.08) | 1.48 (0.63 – 3.46)  | 1.36 (0.58 – 3.19) | 1.23 (0.52 – 2.91) |
|  |  None | 2.23 (0.97 – 5.15) | 2.34 (0.86 – 6.36)  | 1.81 (0.66 – 4.93) | 1.40 (0.51 – 3.89) |
|  |  Wish to Die **–** |  |  |  |  |
|  |  None | 1 (ref) | 1 (ref) | 1 (ref) | 1 (ref) |
|  |  Weak | **3.39 (1.77 – 6.48)\*\*\*** | **4.00 (1.98 – 8.06)** \*\*\* | **3.69 (1.81 – 7.54) \*\*\*** | **3.60 (1.75 – 6.43) \*\*\*** |
|  |  Moderate | **2.77 (1.34 – 5.73)\*\*** | **3.53 (1.54 – 8.12)** \*\* | **3.10 (1.32 – 7.30) \*\*\*** | **3.23 (1.36 – 7.68) \*\*** |
|  |  Strong | **4.56 (2.08 – 10.02)\*\*\*** | **6.38 (2.44 – 16.69)** \*\*\* | **5.98 (2.21 – 16.20) \*\*\*** | **6.02 (2.19 – 16.57)\*\*\*** |
|  | Change over next 24 hours (T2-T1)  **–** |  |  |  |  |
|  |  Perceived Burdensomeness | - | 1.04 (0.95 – 1.14) | 1.04 (0.95 – 1.15) | 1.04 (0.94 – 1.14) |
|  |  Thwarted Belongingness | - | 0.99 (0.93 – 1.07) | 0.99 (0.92 – 1.06) | 0.99 (0.92 – 1.07) |
|  |  Psychological Distress | - | **1.12 (1.06 – 1.20)** \*\*\* | **1.11 (1.04 – 1.19)\*\*** | **1.12 (1.04 – 1.19)\*\*** |
|  |  Wish to Live | - | 1.33 (0.99 – 1.80) | 1.29 (0.94 – 1.77) | 1.25 (0.91 – 1.72) |
|  |  Wish to Die | - | **1.59 (1.19 – 2.12)\*\*\*** | **1.62 (1.18 – 2.21)\*\*** | **1.61 (1.17 – 2.20)\*\*** |
|  | Age | - | - | **0.96 (0.94 – 0.97)\*\*\*** | **0.95 (0.94 – 0.97)\*\*\*** |
|  | Sex  **–** |  |  |  |  |
|  |  Male | - | - | 1 (ref) | 1 (ref) |
|  |  Female | - | - | **3.32 (1.89 – 5.80)\*\*\*** | **2.88 (1.64 – 5.08)\*\*\*** |
|  | Marital Status  **–** |  |  |  |  |
|  |  Married/De Facto | - | - | 1 (ref) | 1 (ref) |
|  |  Divorced/Separated | - | - | 0.72 (0.34 – 1.49) | 0.67 (0.31 – 1.43) |
|  |  Single | - | - | 0.90 (0.55 – 1.48) | 0.90 (0.54 – 1.49) |
|  | Prior Self-Harm | - | - | - | **2.23 (1.46 – 3.41)\*\*\*** |
|  | Diagnosis **–** |  |  |  |  |
|  |  Affective Disorder | - | - | - | 1(ref) |
|  |  Neurotic Disorder | - | - | - | 1.01 (0.67 – 1.51) |
|  |  Behavioural syndromes | - | - | - | 1.85 (0.47 – 7.29) |
|  |  Personality Disorder | - | - | - | 0.84 (0.47 – 1.50) |
|  |  Substance Use | - | - | - | 0.70 (0.29 – 1.66) |
|  |  Schizophrenia | - | - | - | 0.53 (0.16 – 1.79) |
|  | Model Performance Statistics – |  |  |  |  |
|  |  AUC | 0.74 | 0.77 | 0.82 | 0.84 |
|  |  Sensitivity | 74.1% | 70.4% | 74.1% | 74.1% |
|  |  Specificity | 67.3% | 70.3% | 74.5% | 79.4% |
|  |  PPV | 16.7% | 17.3% | 20.4% | 24.1% |
|  |  NPV | 96.7% | 96.4% | 97.0% | 97.2% |

*Note*.\* *p* < .05, \*\* *p* < .01, \*\*\* *p* < .001. Significant relationships are boldfaced. ∆ = Change over 24 hours. T1 = Day prior to a self-harm incident or the first day of assessment of comparison group. PPV = Positive Predictive Value. NPV = Negative Predictive Value. AUC = Area Under Curve. Primary diagnoses with insufficient cell sizes (i.e., less than 5) have not been included in the model.