Supplementary tables: additional information about the risk scales and their items

Table S1: Risk scales tested in the predicting risk of repeat self-harm cohort study

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| **Scale** | **Number of items** | **Scale items** | **Risk categories (published cut-off points)** |
| Manchester Self-Harm Rule | 4 | • Any history of self-harm  • Prior psychiatric treatment  • Benzodiazepines used in self-poisoning  • Current psychiatric treatment | The presence of any one indicates moderate/high risk |
| ReACT Self-Harm Rule | 4 | • Recent self-harm (past year)  • Cutting as method of harm   * Lives alone or homeless   • Current psychiatric treatment | The presence of any one indicates moderate/high risk |
| The SAD PERSONS scale | 10 | • Male sex  • Older age  • Depression  • Previous suicide attempt  • Excess alcohol or  substance use  • Rational thinking loss  • Social supports lacking  • Organised plan  • No spouse  • Sickness | 3 categories of risk:  0-4 = low  5-6 = moderate  7-10 = high |
| The Modified SAD PERSONS scale | 10 | • Male sex  • >19<45  • Depression or hopelessness  • Previous suicidal attempts  or psychiatric care  • Excessive ethanol or drug  use  • Rational thinking loss  • Single, widowed or  divorced  • Organised or serious  attempt  • No social support  • Stated future intent | 3 categories of risk:  0-5 = low  6-8 = moderate  9-14 = high |

Table S2: Risk scale items and corresponding variables from the self-harm cohort studies

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| **Scale** | **Scale items** | **Corresponding variables**  **Centre 1** | **Centre 2** | **Centre 3** | **Centre 4** |
| Manchester Self-Harm Rule | • Any history of self-harm  • Prior psychiatric treatment  • Benzodiazepines used in self-poisoning  • Current psychiatric treatment | * Any history of self-harm * Prior psychiatric treatment * Benzodiazepines used in self-poisoning * Current psychiatric treatment | * Any history of self-harm * Prior psychiatric treatment * Benzodiazepines used in self-poisoning * Current psychiatric treatment | * Any history of self-harm * Prior psychiatric treatment * Benzodiazepines used in self-poisoning * Current psychiatric treatment | * Any history of self-harm * Prior psychiatric treatment * Benzodiazepines used in self-poisoning * Current psychiatric treatment |
| ReACT Self-Harm Rule | Addition scale items not included in SAD PERSONS Scale  • Recent self-harm (past year)  • Cutting as method of harm   * Lives alone or homeless | * Self-harm within the past 12 months * Cutting as method of harm * Living status on day of self-harm | * Self-harm within the past 12 months * Cutting as method of harm * Not available | * Self-harm within the past 12 months * Cutting as method of harm * Living status | * Self-harm within the past 12 months * Cutting as method of harm * Marital status |
| The SAD PERSONS scale | • Male sex  • Older age  • Depression  • Previous suicide attempt  • Excess alcohol or  substance use  • Rational thinking loss  • Social supports lacking  • Organised plan  • No spouse  • Sickness | * Male sex * Age in years * Psychiatric diagnosis (affective disorder) * History of self-harm * Alcohol or drug misuse * Not available * Not available * Not available * Marital status * Presence of a physical disorder | * Male sex * Age in years * Not available * History of self-harm * Referred to alcohol/drug addiction services * Not available * Not available * Beck Suicide Intent Scale (total score) * Marital status * Not available | * Male sex   • Age in years  • Feels depressed  • Previous suicide attempt  • Current alcohol or  substance misuse  • Current visual/audial hallucinations or delusions  • Not available  • Premeditated act  • Marital status  • Physical health problem as precipitant to the act | * Male sex   • Age in years  • Not available  • Previous suicide attempt  • Current alcohol or  substance misuse  • Not available  • Social isolation as a precipitant to the act  • Beck Suicide Intent Scale (total score)  • Marital status  • Physical health problem as precipitant to the act |
| The Modified SAD PERSONS scale | Addition scale items not included in SAD PERSONS Scale    • Depression or hopelessness  • Stated future intent | * Depression only (from psychiatric diagnosis) * Beck Suicide Intent Scale (total score) | * Not available * Beck Suicide Intent Scale (total score) | * Depression or hopelessness   • Stated wanted to die | * Not available * Beck Suicide Intent Scale (total score) |