

Supplementary File for the Suicide Risk Assessment Scale (SRAS)

Thank you for your valuable comment on the assessment tool. We would like to clarify the background of the Suicide Risk Assessment Scale used in this study:

1. Nature of the scale: This is a clinically integrated clinician-rated scale widely used in psychiatric inpatient settings in China, designed for stratified suicide risk management in routine clinical practice. It does not have a single original development publication, as it was formulated based on globally recognized suicide risk frameworks and adapted to Chinese clinical psychiatric care protocols.

2. Evidence-based construct: The three dimensions of the scale are derived from well-established suicide risk assessment systems:

① The core suicidal symptom domain (suicidal ideation, suicide attempt, hopelessness) is based on the classic framework of the Beck Scale for Suicide Ideation[1] (BSSI) and hopelessness theory[2];

② The demographic and physical health risk domain is consistent with the suicide risk factor consensus released by the US Centers for Disease Control and Prevention (CDC) and World Health Organization (WHO)[3];

③ The psychosocial and stress domain is constructed based on the stress-vulnerability model of suicide, which is widely accepted in suicidology research[4].

3. Clinical application in China: This type of multi-dimensional suicide risk assessment form is a standard tool for routine nursing and crisis intervention in Chinese tertiary psychiatric hospitals, and similar structured suicide risk assessment tools have been widely used and validated in multiple Chinese clinical studies.

We have supplemented the scale's evaluation dimensions and scoring criteria in the Methods section and uploaded the full translated scale to the supplementary files.

Scoring Overview

The scale consists of three categories of risk factors, with a total possible score of **43 points**:

- **Category I (28 points): Core psychiatric and suicidal behavior factors**
- **Category II (8 points): Demographic and health related factors**
- **Category III (7 points): Psychosocial and environmental factors**

Overall risk interpretation:

Total Score Risk Level

31 – 43 Extremely high risk

21 – 30 Very high risk

11 – 20 High risk

≤10 Relatively safe

Category I Risk Factors (Total = 28 points)

Item	Scoring Criteria
Depressive Symptoms	1 = mild; 2 = moderate; 3 = severe
Suicidal Ideation	
– <i>presence</i>	0 = absent; 1 = present
– <i>Frequency</i>	1 = occasional; 2 = frequent
– <i>Severity</i>	1 = mild; 2 = intense
– <i>Duration</i>	1 = transient; 2 = persistent

Item	Scoring Criteria
Suicide Attempt	
– <i>Frequency</i>	1 = occasional; 2 = multiple
– <i>Planning</i>	1 = impulsive/unspecific; 2 = planned
– <i>Determination</i>	1 = hesitant; 2 = resolved
Self-evaluation	1 = self-blame, low self-esteem; 2 = self-accusation/guilt
Method of Suicide	
– <i>Availability</i>	1 = no specific method; 2 = accessible and easy to implement
– <i>Rescuability</i>	1 = likely to be discovered and rescued; 2 = hidden/difficult to rescue
Hopelessness	0 = absent; 2 = present
Helplessness	0 = absent; 2 = present
Substance Abuse	0 = absent; 2 = present

Category II Risk Factors (Total = 8 points)

Item	Scoring Criteria
Age	0 = < 45 years; 1 = ≥ 45 years
Gender	1 = female; 2 = male

Item	Scoring Criteria
Marital Status	0 = married; 1 = unmarried; 2 = divorced or widowed
Employment Status	0 = employed or student; 1 = unemployed or out of work
Health Status	0 = healthy; 1 = chronic illness (no functional impairment); 2 = chronic illness (with functional impairment)

Category III Risk Factors (Total = 7 points)

Item	Scoring Criteria
Poor Interpersonal Relationships	0 = absent; 1 = present
Personality Traits	0 = optimistic/positive; 1 = introverted, low self-esteem, impulsive
Family Support	0 = good; 1 = poor
Career Achievement	0 = successful; 1 = unsuccessful
Social Interaction	0 = many friends; 1 = few friends
Stressful Life Events	0 = absent; 1 = present
Insight	0 = good; 1 = poor (impaired self-control/awareness)

References

1. Beck AT, Kovacs M, Weissman A: **Assessment of suicidal intention: the Scale for Suicide Ideation**. *J Consult Clin Psychol* 1979, **47**(2):343-352.
2. Beck AT, Steer RA, Kovacs M, Garrison B: **Hopelessness and eventual suicide: a 10-year prospective study of patients hospitalized with suicidal ideation**. *Am J Psychiatry* 1985, **142**(5):559-563.
3. Favril L, Yu R, Geddes JR, Fazel S: **Individual-level risk factors for suicide mortality in the general population: an umbrella review**. *The Lancet Public health* 2023, **8**(11):e868-e877.
4. Mann JJ, Waternaux C, Haas GL, Malone KM: **Toward a clinical model of suicidal behavior in psychiatric patients**. *Am J Psychiatry* 1999, **156**(2):181-189.