

INPLASY PROTOCOL

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**Review Stage at time of this
submission:** Formal screening
of search results against
eligibility criteria.

Conflicts of interest:
None declared.

INTRODUCTION

Review question / Objective: To provide an overview of prevalence and risk factor for non-suicidal self-injury behavior in adolescents according to systematic reviews and meta-analyses.

Prevalence and risk factors for non-suicidal self-injury behavior in adolescents: an umbrella review of meta-analysis and systematic review

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Review question / Objective: To provide an overview of prevalence and risk factor for non-suicidal self-injury behavior in adolescents according to systematic reviews and meta-analyses.

Condition being studied: Non-suicidal self-injury (NSSI) is the intentional damage to an individual's own body tissue, in the absence of suicidal intent and with a view to reducing a strong cognitive-emotional state. It includes a variety of behaviors such as cutting, burning, scratching skin, biting, and hitting oneself, which is widespread among adolescents, especially in females and with an onset age between 11-13 years of age.

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 07 March 2021 and was last updated on 07 March 2021 (registration number INPLASY202130022).

Condition being studied: Non-suicidal self-injury (NSSI) is the intentional damage to an individual's own body tissue, in the absence of suicidal intent and with a view to reducing a strong cognitive-emotional state. It includes a variety of behaviors such as cutting, burning, scratching skin, biting, and hitting oneself, which is widespread among adolescents, especially

in females and with an onset age between 11-13 years of age.

METHODS

Search strategy: We searched PsycINFO, CINAHL Cochrane Library, EMbase, MEDLINE, PubMed, Web of Science, CNKI, VIP database and WangFang databases, last search performed December , 20th, 2020, to identify systematic reviews or meta-analyses. The search string will be built as follow : (self-injurious behavior[MeSH Terms] OR self-injurious behavior OR NSSI OR self-injury OR self-harm OR self-destructive behavior OR self-abuse OR self-mutilation OR automutilation OR auto-aggression OR parasuicide OR self-inflicted violence) AND (adolescent OR student OR teen* OR adolescence OR youth) AND (systematic review OR meta*).

Participant or population: Adolescents (up to and including individuals 20 years old).

Intervention: Not applicable.

Comparator: Not applicable.

Study designs to be included: Systematic reviews or meta-analyses pooling observational (cross-sectional, case-control, cohort) studies.

Eligibility criteria: We will include studies the met the following criteria: (1)Systematic reviews or meta-analyses; (2)Adolescents (≤ 20 years old); (3) The studies reported the prevalence or/and risk factors for non-suicidal self-injury behavior.

Information sources: We searched PsycINFO, CINAHL Cochrane Library, EMbase, MEDLINE, PubMed, Web of Science, CNKI, VIP database and WangFang databases, last search performed December , 20th, 2020, to identify systematic reviews or meta-analyses.

Main outcome(s): Prevalence of Non-Suicidal Self-Injury, and risk factors for

non-suicidal self-injury behavior in adolescents.

Quality assessment / Risk of bias analysis: Quality of included meta-analyses and systematic reviews will be assessed by AMSTAR2. Two researchers will evaluate the quality of studies, and any discrepancies will be resolved by a third author.

Strategy of data synthesis: We will perform various statistical analysis on each eligible meta-analysis with individual study estimates extracted from each meta-analysis. We will calculate the summary effect size, 95% CI, and p value of eligible meta-analyses .Heterogeneity was assessed with the Cochran's Q test and I^2 statistic.

Subgroup analysis: If the evidence is sufficient, we will conduct a subgroup analysis to determine the difference between different gender, environment etc.

Sensitivity analysis: Sensitivity analysis will be carried out to assess the impact of a single study on a comprehensive estimate of each risk factor.

Country(ies) involved: China.

Keywords: non-suicidal self-injury behavior, adolescents, prevalence, risk factors, umbrella review.

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