Associations between humiliation, shame, self-harm and suicidal behaviours among adolescents and young adults: A systematic review protocol

Aoibheann McLoughlin¹*, Anvar Sadath²*, Elaine McMahon²‡, Katerina Kavalidou³‡, Kevin Malone¹‡

1 Department of Psychiatry and Mental Health Research, St. Vincent’s University Hospital, University College Dublin, Dublin, Ireland, 2 School of Public Health and National Suicide Research Foundation, University College Cork, Cork, Ireland, 3 National Clinical Programme, HSE, Dublin, Ireland

* These authors contributed equally to this work.
‡ These authors also contributed equally to this work.
* aoibheannmcloughlin@gmail.com (AM); anvarvakkayil@gmail.com (AS)

Abstract

Background

Suicide is the second leading cause of death among young people worldwide and remains a major public health concern. Research indicates that negative social contexts involving familial and peer relationships, have far-reaching influences on levels of suicidal behaviours in later life. Previous systematic reviews have focused on evaluating associations between negative life events such as abuse and bullying in childhood and subsequent self-harm or suicidality. However, the association between adolescent experiences of humiliation and shame, and subsequent self-harm or suicidal behaviour among children and young adults has not been well examined. As such, this systematic review is conducted to examine the prevalence and association between humiliation and shame and self-harm, suicidal ideation, and death by suicide among adolescents and young adults.

Methods

A systematic literature search in extant electronic databases including: MEDLINE, Web of Science Core Collection, CINAHL, PsycINFO, and Embase will be conducted to identify potential studies. Google Scholar, and the reference list of the retrieved articles and/or previous systematic reviews in this area, will also be scanned to identify further potential studies. ProQuest will be searched to identify relevant studies available within grey literature. There are no restrictions on the date of publications. Based on our initial review, the following terms were identified: Population: Adolescent (MESH), young adult (MESH), teen, teenage. Exposure: Humiliation, degradation, shame (MESH) or embarrassment (MESH), harassment victimisation, abasement. Outcome: Self-injurious behaviour (MESH), suicide (MESH), suicide attempted (MESH), suicide completed (MESH), self-harm, intentional self-injury, deliberate self-harm, overdose, deliberate self-poisoning, non-suicidal self-injury,
self-mutilation, suicidal thought, suicidal ideation, suicidal intent, suicide. At least one term from each category will be used for conducting the literature search. All original quantitative studies published in the English language which examined the prevalence or association between humiliation or shame and self-harm and/or suicidal ideation and/or completed suicide will be included. The studies will be assessed for methodological quality using the Joanna Briggs Institute critical appraisal tools. Narrative synthesis will be performed for all of the studies. If the studies are sufficiently homogenous, the results will be pooled for a meta-analysis. This systematic review protocol followed the Preferred Reporting Items for Systematic Reviews and Meta-Analyses Protocol (PRISMA-P) guidelines. The protocol has been registered with the International Prospective Register of Systematic Reviews (PROSPERO) [CRD42022289843].

Discussion
This is the first review to synthesise evidence on the prevalence of, and associations between the experiences of humiliation and shame and subsequent self-harm and/or suicidal behaviours among adolescents and young adults. As there is growing evidence on increased self-harm among this age group, it is important to identify population-specific risk factors for self-harm and suicidality which will have significance in formulating tailored and effective treatment and therapeutic services for adolescents and young adults.

Introduction
Self-harm and suicide remain a major public health concern for adolescents and young adults across the world [1,2]. Suicide is the second leading cause of death among young people worldwide, with several countries reporting increases in self-harm among this cohort in recent years [3,4]. Globally, suicide is the leading cause of death for female adolescents and the third most common for male adolescents after road traffic accidents and violence [5]. Suicide and suicidal behaviour become increasingly common after puberty. This is a trend likely attributable to new-onset mood disorders and substance abuse [6], school/family problems, conflictual peer relations, adverse early childhood experiences [6], and evolving personality factors including neuroticism and impulsivity [7]. Cognitive immaturity, lack of judgment and low impulse control play an important role in this increased risk of suicide [6], with research demonstrating an association between adolescent neurobiological changes and increased risk-taking behaviours [8]. Life stress is a critical factor in all major theories of suicide [9,10]. Life stressors, including acute life events, chronic difficulties, and trauma are associated with both suicidal ideation and attempts in adolescence and adults [9,11]. Evidence for an association between negative life events and suicidality is consistent [9,11]. Many adverse experiences resulting from peer relationships, peer conflict, victimisation and isolation are associated with suicidal behaviours (4, 12), with recent longitudinal research revealing that key social contexts in early adolescence, (including familial and peer relationships), have far-reaching influences on levels of suicidal behaviours in later life [12].

The integrated motivational-volitional (IMV) model [13] is a prominent and widely accepted theoretical conceptualisation [14] that explains suicidal behaviour as a process made up of three distinctive phases in which different mediating factors are involved. In the pre-motivational phase, biological, and/or genetic and cognitive susceptibility factors pre-dispose
the individual towards suicidal behaviour. For instance, decreased serotonergic neuro-trans-
mission (biological vulnerability) and/or socially prescribed perfectionism (cognitive vulnera-
bility) are factors implicated in pre-disposing an individual to self-harm or suicidal ideation
[13]. According to this model, socially prescribed perfectionism can intensify the feeling of
defeat when an interpersonal crisis occurs [13]. Higher levels of perfectionism are also associ-
ated with sensitivity to emotional pain [14]. In the motivational phase, suicidal ideas and plans
begin to develop due to the influence of negative feelings such as defeat and humiliation.
When a vulnerable individual appraises that there is no perceived escape from humiliation or
defeat, a sense of entrapment develops, a phenomenon which is a proximal predictor of sui-
cidal ideation [13]. However, the progression of entrapment into suicidal ideation is depen-
dent on the presence of motivational moderators. Protective motivational moderators in the
form of social support, belongingness, and reasons for living allow the trapped individual to
see positive alternatives, while feelings of burdensomeness, poor social support and depleted
resilience will increase the risk of entrapment transitioning into suicidal ideation/intent [13].
Finally, in the volitional phase, precipitating factors such as access to means or impulsivity lead
to a suicide attempt [13].

The role of humiliation/negative appraisal leading to a sense of inescapable entrapment in
vulnerable individuals is a core feature of progression towards suicidality in the IMV model.
In the context of negative life events, humiliation is the single most experienced life stress
among adolescents followed by interpersonal loss [9], and thus warrants further attention. The
process of ‘humiliation’ refers to two different forms of experience. Firstly; the act of humiliat-
ing or being humiliated, and secondly; the state or feeling of being humiliated. Thus, humiliation
can be considered as an external event or an internal state. For the purpose of this
systematic review, humiliation is conceptualised as an internal state from the recipient’s point
of view. Here, humiliation encompasses the intrinsic experience of being rejected, excluded,
and put down [9].

Humiliation is associated with many mental health conditions. Persistent fear of being
humiliated or scrutinised by others are common in social anxiety disorder [15], while suffering
severe public humiliation can lead to major depression [16,17], hopelessness, and helplessness
[18], and is associated with suicidal ideation or acts [19]. Moreover, past interpersonal humili-
ation events have been found to predict a higher level of persecutory ideation in a non-clinical
population [20].

Whilst there is growing research on the topic of bullying [21–28], which can be inferred to
be a cause of humiliation given threats to the self [29], bullying constitutes an event that is
inflicted on a person, and does not capture the emotional reaction of the victim in the face of
such harassment or abuse [29].

Shame can be understood as a cognitive affective construct, comprised of negative judg-
ements of the self [30], which are global, undesirable, and characterised by an evaluation of the
self as inherently weak, inadequate, or bad [31,32]. Shame is a subjective emotional response
to negative events such as the making of mistakes, being wrong, and experiences of maltreat-
ment [33,34]. Shame plays a central component in psychosocial functioning in its role as a
trans-diagnostic emotion associated with many mental health conditions [35].

While shame and humiliation are often used interchangeably in literature [36], similarities
and differences between these two constructs can be identified. Like shame, humiliation occu-
pies space within the realm of “self-conscious emotions” [37]. These emotions are character-
ized by (a) a consciousness of the self and (b) some form of evaluation of the self. Both
experiences require an individual to make an interpretation of an event as shameful or humili-
ating [38]. However, unlike shame, humiliation involves more emphasis on an interaction in
which one is debased or forced into a degraded position by someone who is, at that moment,
more powerful [39]. Klein [38], in clarifying the distinction between shame and humiliation avers that: "Shame is what one feels when one has failed to live up to one’s ideals for what constitutes suitable behaviour in one’s eyes as well as the eyes of others. Humiliation is what one feels when one is ridiculed, scorned, held in contempt, or otherwise disparaged for what one is rather than what one does" [38]. Shame has been related to self-injurious behaviour [40], suicide attempts [41] and suicidal ideation [42]. Although previous systematic reviews have examined associations between many significant life events including, child sexual abuse [43–45], bullying [21–28] and self-harm or suicidality, the association between experiences of humiliation and/or shame and self-harm or suicidal behaviours among adolescents and young adults has not been well examined. Previous systematic reviews have examined the association of shame with many mental health conditions, including psychosis [31], anorexia and bulimia nervosa [32], depressive symptoms [33], and substance abuse [46]. Only one systematic review has studied the association between shame and self-harm in adults [47]. This indicated that individuals with a history of self-harm reported greater shame, and highlighted a correlation between shame and frequency of self-harm [47]. However, this latter work did not focus on young people, and centres on self-harm outcomes only. Therefore, the current systematic review is unique and the first of its kind, due to its primary focus on adolescents’ and young adults’ experience of shame and humiliation and associations with self-harm and suicidality.

The rationale for selecting two distinct age groups (adolescents and young adults) for this review is based on the increased prevalence of self-harm repetition among these age groups in recent years, with some interesting age and gender variations [48]. Whilst self-harm repetition rate is high among adolescent females (15–19 years old) in comparison to young adults; this repetition rate is also high among young adult males [48].

Objectives

1. To systematically review studies that report the prevalence of humiliation and shame among adolescents and young adults with a history of self-harm and/or suicidal behaviours. 2. To systematically review studies that examine the association between humiliation and shame and self-harm and/or suicidal behaviours among adolescents and young adults.

Methods

This systematic review protocol followed the Preferred Reporting Items for Systematic Reviews and Meta-Analysis Protocol guidelines (PRISMA-P) [49]. The protocol has been registered with International Prospective Register of Systematic Reviews (PROSPERO) [CRD42022289843].

Eligibility Criteria: All original studies published in the English language will be considered for this review. Peer reviewed articles and grey literature will be included.

Specifically, the following eligibility criteria will be fulfilled:

Study Design: Quantitative research studies including cross-sectional, prospective or longitudinal, and case control studies will be included. Mixed method studies will be included if there are quantitative measurements included in the study variables. Experimental studies/quasi-experimental will be included if there are sufficient baseline data available. Qualitative studies, case reports, and case series will be excluded.

Participants: Adolescent or young adults (13–24 years of age).

Exposure and Outcome: Studies reporting the prevalence or association of humiliation or shame with self-harm, suicidal ideation, suicide attempts, and completed suicide will be included. Humiliation and/or shame measured by standard instruments or self-reported questionnaire or measured by single item/questions will be included.
Setting: No restriction by type of setting. Furthermore, there are no restrictions on the date of publications.

Information sources
Electronic databases including MEDLINE, Web of Science Core Collection, CINAHL, PsycINFO, and Embase will be systematically searched to identify potential studies. Google Scholar (as a secondary source) will be searched (first 200 articles) to identify if any potential studies have been left out. The combination of Embase, MEDLINE, Web of Science Core Collection, and Google Scholar performed best, achieving an overall recall of 98.3 and 100% recall in 72% of systematic reviews [50]. The thesis and dissertation database ProQuest will be searched to identify relevant studies in the grey literature. Additionally, the reference list of the retrieved articles and/or previous systematic reviews in this area will also be scanned to identify further potential studies. The literature search will be conducted from 20th September 2021 to 29th April 2022. The studies will be searched from inception to 29th April 2022.

Search strategy
Based on our initial search in the electronic databases, the following MESH terms or key/index terms were identified. A combination of these terms (at least one term from each category) will be used for conducting the literature search.

Boolean operators such as ‘AND’, ‘OR’, ‘NOT’ will be used to maximise the penetration of terms searched, and appropriate “wild cards” will be employed to account for plurals, variations in databases, and spelling.

Category 1
Population: Adolescent (MESH), young adult (MESH), teen, teenage.

Category 2
Exposure: Humiliation, degradation, shame (MESH) or embarrassment (MESH), harassment, victimisation, abasement.

Category 3
Outcome: Self-injurious behaviour (MESH), suicide (MESH), suicide attempted (MESH), suicide completed (MESH), self-harm, intentional self-injury, deliberate self-harm, overdose, deliberate self-poisoning, non-suicidal self-injury, self-mutilation, suicidal thought, suicidal ideation, suicidal intent.

Details of the search strategy has been included as a supplementary file.

Data management
The literature search results (including citations, abstracts and full text) will be uploaded to Rayyan, an open source for the management of records for systematic reviews, where duplicates will be removed.

Study selection process
Two authors (AMcL & AS) will independently screen the titles and abstracts yielded by the search against the inclusion criteria through Rayyan. We will obtain full reports for all titles that appear to meet the inclusion criteria, or where there is any uncertainty. Two of the review authors (AMcL & AS) will then screen the full text reports and decide whether these meet the inclusion criteria. We will seek additional information from study authors where necessary to resolve questions about eligibility. We will resolve disagreement through discussion. We will record the reasons for excluding studies through Rayyan.
Data collection process

The relevant study details will be populated onto a pre-prepared data extraction sheet on Microsoft Word. The self-prepared data extraction sheet will include: the author, year of publication, country of study, study setting, population and sample, study design, outcome variables or measures, and main findings. Additionally, data relevant to methodological quality appraisal will be extracted from all of the included studies. Data will be extracted by two independent review authors (AMcL & AS).

Risk of bias assessment

The studies will be assessed for methodological quality using the Joanna Briggs Institute (JBI) critical appraisal tools for analytical cross sectional (eight-item) [51], cohort studies (eleven-item) [52] or Case Control Studies (ten-item) [53]. The items include assessment on sampling, study setting, measurement of exposure, condition and outcome, identification and management of confounding factors, appropriateness of the statistical methods, and three additional items for cohort studies (i.e. duration of follow-up, dropouts, and strategies to address incomplete follow-ups) Two additional items for case control studies will be included (appropriate match of the case and control subjects, and the criteria used for identification of cases and controls). Each item in the JBI appraisal tools is answered as Yes, No, Unclear or Not applicable. Two review authors (AMcL & AS) will independently apply the tool to each included study, and record supporting information and justifications for judgements of risk of bias for each domain. Any discrepancies in judgements of risk of bias or justifications for judgements will be resolved by discussion to reach consensus between the two review authors, with a third review author acting as an arbiter if necessary.

Data synthesis

The summary of the studies and risk of bias assessment results will be presented in tabular form in chronological order, starting from most recent. A descriptive summary of the findings including proportion studies reporting high versus low prevalence or significant versus non-significant association between humiliation or shame with self-harm and/or various types of suicidal behaviours will be presented. The studies reporting an association versus no association will be compared with the findings on risk of bias assessment. Furthermore, the studies reporting an association versus no association will be compared with sample size, study setting, study design, duration/frequency of outcome, and quality of measurement used across the studies.

If the studies are sufficiently homogenous in terms of population subtypes (clinical vs non-clinical and/or adolescents vs young adults), exposure (humiliation/shame), and outcomes (self-harm or suicidal behaviours); the results will be pooled for a meta-analysis. Cochrane RevMan 5 software will be used for meta-analysis. The dichotomous data will be presented as relative risks with 95% confidence intervals (CI). Continuous data will be presented as mean differences or standardised mean differences (Cohen’s d) with 95% CIs (if the study outcome is measured by different scales). As the individual studies included cannot be expected to come from the same population of studies, pooled mean effect size will be calculated using the random effects model. Funnel plots and Egger’s test will be used to determine publication bias. Heterogeneity will be assessed by visual inspection of forest plots, Cochrane’s Q, and Higgins’ test (I2). Moderation analyses may be conducted to understand the potential association with the effect sizes. For instance, to analyse the potential moderating effects of sex on humiliation or shame, the effect size of studies that consisted of females will be compared with the effect sizes of the studies that consisted of males.
If possible, sub-group analyses will be conducted according to the population subtypes (clinical vs non-clinical and/or adolescents vs young adults). If there is sufficient evidence to make recommendations, we will rate the certainty of evidence based on Cochrane methods and in accordance with the Grading of Recommendations Assessment, Development and Evaluation (GRADE) [54]. The GRADEpro will be used to construct a Summary of Findings. Accordingly, the certainty of evidence of the outcomes will be graded as high, moderate, low, and very low based on the five domains including: risk of bias, imprecision, inconsistency, indirectness, and publication bias.

Discussion

To our knowledge, this is the first review to synthesise evidence on the prevalence of, and associations between the experiences of humiliation and shame and self-harm and suicidal behaviours among adolescents and young adults. As there is growing evidence on increased self-harm among this age group, it is important to identify population-specific risk factors for self-harm, suicidal ideation and behaviours which will have significance in formulating targeted and effective treatment and therapeutic services for adolescents and young adults. Identifying risk factors for self-harm and suicide during adolescence is key to achieving global health goals [55]. For instance, the review addresses UN Sustainable Development Goal 3, Target 3.4, to reduce by one third premature mortality from non-communicable diseases, including suicide, through prevention and treatment and promotion of mental health and well-being by 2030. This review is also aligned with the WHO Comprehensive Mental Health Action Plan 2013–2030. Concurrently, it is envisaged that this review will contribute to the evidence-base on factors influencing progression towards self-harm and suicide among adolescents and young adults.

Supporting information

S1 Checklist. (DOC)
S1 File. (DOCX)

Author Contributions

**Conceptualization:** Aoibheann McLoughlin, Anvar Sadath, Elaine McMahon, Katerina Kavalidou, Kevin Malone.

**Funding acquisition:** Aoibheann McLoughlin.

**Investigation:** Aoibheann McLoughlin.

**Methodology:** Aoibheann McLoughlin, Anvar Sadath, Elaine McMahon, Katerina Kavalidou.

**Project administration:** Aoibheann McLoughlin, Anvar Sadath, Kevin Malone.

**Writing – original draft:** Aoibheann McLoughlin, Anvar Sadath, Elaine McMahon, Katerina Kavalidou, Kevin Malone.

**Writing – review & editing:** Aoibheann McLoughlin, Anvar Sadath, Elaine McMahon, Katerina Kavalidou, Kevin Malone.
References

1. Hawton K, Saunders KEA, O'Connor RC. Self-harm and suicide in adolescents. Lancet. 2012; 379: 2373–2382. https://doi.org/10.1016/S0140-6736(12)60322-5 PMID: 22726518

2. Hawton K, Bergen H, Waters K, Ness J, Cooper J, Steeg S, et al. Epidemiology and nature of self-harm in children and adolescents: findings from the multicentre study of self-harm in England. Eur Child Adolesc Psychiatry. 2012; 21: 369–377. https://doi.org/10.1007/s00787-012-0269-6 PMID: 22447195

3. Borschmann R, Kinner SA. Responding to the rising prevalence of self-harm. The Lancet Psychiatry. 2019; 6: 548–549. https://doi.org/10.1016/S2215-0366(19)30210-X PMID: 31175058

4. Griffin E, McMahon E. Adolescent mental health: Global data informing opportunities for prevention. EClinicalMedicine. 2020; 24. https://doi.org/10.1016/j.eclinm.2020.100413 PMID: 32637897

5. Patton GC, Coffey C, Sawyer SM, Viner RM, Haller DM, Bose K, et al. Global patterns of mortality in young people: a systematic analysis of population health data. Lancet. 2009; 374: 881–892. https://doi.org/10.1016/S0140-6736(09)60741-8 PMID: 19748397

6. Oquendo MA, Mann JJ. Suicidal Behavior: A Developmental Perspective. Psychiatr Clin North Am. 2008; 31: xiii–xvi. https://doi.org/10.1016/j.psc.2008.03.001 PMID: 18439441

7. Ji C, CL, KI, IF, AZ, PO D, et al. Psychosocial risk factors for suicidality in children and adolescents. European child & adolescent psychiatry. 2020; 29. https://doi.org/10.1007/s00787-018-01270-9 PMID: 30684089

8. Giedd JN. The teen brain: insights from neuroimaging. J Adolesc Health. 2008; 42: 335–343. https://doi.org/10.1016/j.jadohealth.2008.01.007 PMID: 18346658

9. Stewart JG, Shields GS, Esposito EC, Cosby EA, Allen NB, Slavich GM, et al. Life Stress and Suicide in Adolescents. J Abnorm Child Psychol. 2019; 47: 1707–1722. https://doi.org/10.1007/s10802-019-00534-5 PMID: 31028559

10. O’Connor RC, Nock MK. The psychology of suicidal behaviour. The Lancet Psychiatry. 2014; 1: 73–85. https://doi.org/10.1016/S2215-0366(14)70222-6 PMID: 26360404

11. Liu RT, Miller I. Life events and suicidal ideation and behavior: a systematic review. Clin Psychol Rev. 2014; 34: 181–192. https://doi.org/10.1016/j.cpr.2014.01.006 PMID: 24534642

12. Kasen S, Chen H. Social context and change in suicide ideation in a community sample of youths. Soc Psychiatry Psychiatr Epidemiol. 2020; 55: 319–327. https://doi.org/10.1007/s00127-019-01772-0 PMID: 31501909

13. O’Connor RC, Kirtley OJ. The integrated motivational–volitional model of suicidal behaviour. Philos Trans R Soc Lond B Biol Sci. 2018; 373: 20170268. https://doi.org/10.1098/rstb.2017.0268 PMID: 30012735

14. Kirtley OJ O’Connor RC, O’Carroll RE. Hurting Inside and Out? Emotional and Physical Pain in Self-Harm Ideation and Enactment. International Journal of Cognitive Therapy. 2015; 8: 156–171. https://doi.org/10.1521/ijct.2015.8.2.156

15. Leigh E, Clark DM. Understanding Social Anxiety Disorder in Adolescents and Improving Treatment Outcomes: Applying the Cognitive Model of Clark and Wells (1995). Clin Child Fam Psychol Rev. 2018; 21: 388–414. https://doi.org/10.1007/s10567-018-0258-5 PMID: 29654442

16. Kendler KS, Hettema JM, Butera F, Gardner CO, Prescott CA. Life Event Dimensions of Loss, Humiliation, Entrapment, and Danger in the Prediction of Onsets of Major Depression and Generalized Anxiety. Archives of General Psychiatry. 2003; 60: 789–796. https://doi.org/10.1001/archpsyc.60.8.789 PMID: 12912762

17. Bifulco A, Kagan L, Spence R, Nunn S, Bailey-Rodriguez D, Hosang G, et al. Characteristics of severe life events, attachment style, and depression–Using a new online approach. British Journal of Clinical Psychology. 2019; 58: 427–439. https://doi.org/10.1111/bjc.12221 PMID: 30980546

18. Torres WJ, Bergner RM. Humiliation: Its Nature and Consequences. Journal of the American Academy of Psychiatry and the Law Online. 2010; 38: 195–204. Available: http://jaapl.org/content/38/2/195. PMID: 20542938

19. Linden M, Noack I. Suicidal and Aggressive Ideation Associated with Feelings of Embitterment. Psychopathology. 2018; 51: 245–251. https://doi.org/10.1159/000489176 PMID: 29879700

20. Collaizzi A, Lalooyaux J, Larei F. Examination of humiliation and past maladaptive family context in persecutory ideation: An exploratory study. Compr Psychiatry, 2017; 78: 19–24. https://doi.org/10.1016/j.comppsych.2017.06.015 PMID: 28772187

21. John A, Glendinning AC, Marchant A, Montgomery P, Stewart A, Wood S, et al. Self-Harm, Suicidal Behaviours, and Cyberbullying in Children and Young People: Systematic Review. J Med Internet Res. 2018; 20: e129. https://doi.org/10.2196/jmir.9044 PMID: 29674305
22. Daine K, Hawton K, Singaravelu V, Stewart A, Simkin S, Montgomery P. The power of the web: a systematic review of studies of the influence of the internet on self-harm and suicide in young people. PLoS One. 2013; 8: e77555. https://doi.org/10.1371/journal.pone.0077555 PMID: 24204868

23. van Geel M, Vedder P, Tanilon J. Relationship between peer victimization, cyberbullying, and suicide in children and adolescents: a meta-analysis. JAMA Pediatr. 2014; 168: 435–442. https://doi.org/10.1001/jamapediatrics.2013.4143 PMID: 24615300

24. Heerde JA, Hemphill SA. Are Bullying Perpetration and Victimization Associated with Adolescent Deliberate Self-Harm? A Meta-Analy sis. Arch Suicide Res. 2019; 23: 353–381. https://doi.org/10.1080/13811118.2018.1472690 PMID: 29791272

25. Kowalski RM, Giumetti GW, Schroeder AN, Lattanner MR. Bullying in the digital age: a critical review and meta-analysis of cyberbullying research among youth. Psychol Bull. 2014; 140: 1073–1137. https://doi.org/10.1037/a0035618 PMID: 24512111

26. Leach LS, Poyser C, Butterworth P. Workplace bullying and the association with suicidal ideation/thoughts and behaviour: a systematic review. Occup Environ Med. 2017; 74: 72–79. https://doi.org/10.1136/oemed-2016-103726 PMID: 27663985

27. Karanikola MNK, Lyberg A, Holm A-L, Severinsson E. The Association between Deliberate Self-Harm and School Bullying Victimization and the Mediating Effect of Depressive Symptoms and Self-Stigma: A Systematic Review. Biomed Res Int. 2018; 2018: 4745791. https://doi.org/10.1155/2018/4745791 PMID: 30519578

28. Holt MK, Vivolo-Kantor AM, Polanin JR, Holland KM, DeGue S, Matjasko JL, et al. Bullying and suicidal ideation and behaviors: a meta-analysis. Pediatrics. 2015; 135: e496–509. https://doi.org/10.1542/peds.2014-1864 PMID: 25560447

29. Chou C-Y, Tsoh J, Vigil O, Bain D, Uhm SY, Howell G, et al. Contributions of self-criticism and shame to hoarding. Psychiatry Res. 2018; 262: 488–493. https://doi.org/10.1016/j.psychres.2017.09.030 PMID: 28939393

30. Carden LJ, Saini P, Seddon C, Watkins M, Taylor PJ. Shame and the psychosis continuum: A systematic review of the literature. Psycho1 Psychother. 2020; 93: 160–186. https://doi.org/10.1111/papt.12204 PMID: 30426672

31. Blythin SPM, Nicholson HL, Macintyre VG, Dickson JM, Fox JRE, Taylor PJ. Experiences of shame and guilt in anorexia and bulimia nervosa: A systematic review. Psychol Psychother. 2020; 93: 134–159. https://doi.org/10.1111/papt.12198 PMID: 30182527

32. Hartner S, Low SM, Whitesell NR. What Have We Learned from Columbine. Journal of School Violence. 2003; 2: 3–26. https://doi.org/10.1300/J202v02n03_02

33. Chou C-Y, Tsoh J, Vigil O, Bain D, Uhm SY, Howell G, et al. Contributions of self-criticism and shame to hoarding. Psychiatry Res. 2018; 262: 488–493. https://doi.org/10.1016/j.psychres.2017.09.030 PMID: 28939393

34. Carden LJ, Saini P, Seddon C, Watkins M, Taylor PJ. Shame and the psychosis continuum: A systematic review of the literature. Psycho1 Psychother. 2020; 93: 160–186. https://doi.org/10.1111/papt.12204 PMID: 30426672

35. Blythin SPM, Nicholson HL, Macintyre VG, Dickson JM, Fox JRE, Taylor PJ. Experiences of shame and guilt in anorexia and bulimia nervosa: A systematic review. Psychol Psychother. 2020; 93: 134–159. https://doi.org/10.1111/papt.12198 PMID: 30182527

36. Hartner S, Low SM, Whitesell NR. What Have We Learned from Columbine. Journal of School Violence. 2003; 2: 3–26. https://doi.org/10.1300/J202v02n03_02

37. Chou C-Y, Tsoh J, Vigil O, Bain D, Uhm SY, Howell G, et al. Contributions of self-criticism and shame to hoarding. Psychiatry Res. 2018; 262: 488–493. https://doi.org/10.1016/j.psychres.2017.09.030 PMID: 28939393

38. Sagar SS, Stoeber J. Perfectionism, fear of failure, and affective responses to success and failure: the central role of fear of experiencing shame and embarrassment. J Sport Exerc Psychol. 2009; 31: 602–627. https://doi.org/10.1123/jsep.31.5.602 PMID: 20016111

39. Ferreira C, Moura-Ramos M, Matos M, Galhardo A. A new measure to assess external and internal shame: Development, factor structure and psychometric properties of the external and internal shame scale. Current Psychology. 2020; 1–10.

40. Hartling LM, Luchetta T. Humiliation: Assessing the Impact of Derision, Degradation, and Debasement. The Journal of Primary Prevention. 1999; 19: 259–278. https://doi.org/10.1023/A:1022622422521

41. Tangney JP. The Self-Conscious Emotions: Shame, Guilt, Embarrassment and Pride. Handbook of Cognition and Emotion. John Wiley & Sons, Ltd; 1999. pp. 541–568. https://doi.org/10.1002/0470013494.ch26

42. Klein DC. The humiliation dynamic: An overview. J Primary Prevent. 1991; 12: 93–121. https://doi.org/10.1007/BF02015214 PMID: 24258218

43. Miller SB. Humiliation and shame: Comparing two affect states as indicators of narcissistic stress. Bulletin of the Menninger Clinic. 1988; 52: 40.

44. Brown MZ, Linehan MM, Comtois KA, Murray A, Chapman AL. Shame as a prospective predictor of self-inflicted injury in borderline personality disorder: a multi-modal analysis. Behav Res Ther. 2009; 47: 815–822. https://doi.org/10.1016/j.brat.2009.06.008 PMID: 19596223

45. Schneider BH, Sanz Martinez Y, Koller SH, D’Onofrio P, A Puricelli D, Lalota G, et al. Hopelessness and shame in relation to suicide attempts by Cuban adolescents. Transcult Psychiatry. 2022; 59: 28–36. https://doi.org/10.1177/1363461520963924 PMID: 33106127

46. Zhao J, Chi Y, Ju Y, Liu X, Wang J, Liu X, et al. Shame and Suicidal Ideation among Undergraduates in China: The Mediating Effect of Thwarted Belongingness and Perceived Burdensomeness. Int J Environ Res Public Health. 2020; 17: E2360. https://doi.org/10.3390/ijerph17072360 PMID: 32244371
43. Serafini G, Canepa G, Adavastro G, Nebbia J, Belvederi Murri M, Erbuto D, et al. The Relationship between Childhood Maltreatment and Non-Suicidal Self-Injury: A Systematic Review. Front Psychiatry. 2017; 8: 149. https://doi.org/10.3389/fpsyt.2017.00149 PMID: 28970807

44. Klonsky ED. The functions of deliberate self-injury: A review of the evidence. Clinical Psychology Review. 2007; 27: 226–239. https://doi.org/10.1016/j.cpr.2006.08.002 PMID: 17014942

45. Angelakis I, Austin JL, Gooding P. Association of Childhood Maltreatment With Suicide Behaviors Among Young People: A Systematic Review and Meta-analysis. JAMA Network Open. 2020; 3: e2012563. https://doi.org/10.1001/jamanetworkopen.2020.12563 PMID: 32756929

46. Luoma JB, Chwyl C, Kaplan J. Substance use and shame: A systematic and meta-analytic review. Clin Psychol Rev. 2019; 70: 1–12. https://doi.org/10.1016/j.cpr.2019.03.002 PMID: 30856404

47. Sheehy K, Noureen A, Khaliq A, Dhingra K, Huain N, Pontin EE, et al. An examination of the relationship between shame, guilt and self-harm: A systematic review and meta-analysis. Clin Psychol Rev. 2019; 73: 101779. https://doi.org/10.1016/j.cpr.2019.101779 PMID: 31707184

48. Bennardi M, McMahon E, Corcoran P, Griffin E, Arensman E. Risk of repeated self-harm and associated factors in children, adolescents and young adults. BMC Psychiatry. 2016; 16: 421. https://doi.org/10.1186/s12888-016-1120-2 PMID: 27881107

49. Shamseer L, Moher D, Clarke M, Ghersi D, Liberati A, Petticrew M, et al. Preferred reporting items for systematic review and meta-analysis protocols (PRISMA-P) 2015: elaboration and explanation. BMJ. 2015; 350: g7647. https://doi.org/10.1136/bmj.g7647 PMID: 25555855

50. Bramer WM, Rethlefsen ML, Kleijnen J, Franco OH. Optimal database combinations for literature searches in systematic reviews: a prospective exploratory study. Syst Rev. 2017; 6: 245. https://doi.org/10.1186/s13643-017-0644-y PMID: 29208034

51. Joanna Briggs Institute. Critical appraisal checklist for analytical cross sectional studies. Adelaide: The Joanna Briggs Institute. 2017.

52. Joanna Briggs Institute. Critical appraisal checklist for cohort studies. Acedido em http://joannabriggs.org/research/critical-appraisal-tools.html. 2017.

53. Moola S, Munn Z, Tufanaru C, Aromataris E, Sears K, Stetcu R, et al. Chapter 7: Systematic reviews of etiology and risk. Joanna briggs institute reviewer’s manual The Joanna Briggs Institute. 2017; 5.

54. Balshem H, Helfand M, Schünemann HJ, Oxman AD, Kunz R, Brozek J, et al. GRADE guidelines: 3. Rating the quality of evidence. Journal of Clinical Epidemiology. 2011; 64: 401–406. https://doi.org/10.1016/j.jclinepi.2010.07.015 PMID: 21208779

55. Campisi SC, Carducci B, Akseer N, Zasowski C, Szatmari P, Bhutta ZA. Suicidal behaviours among adolescents from 90 countries: a pooled analysis of the global school-based student health survey. BMC Public Health. 2020; 20: 1102. https://doi.org/10.1186/s12889-020-09209-z PMID: 32772922