REVIEW



The self-perceived needs of adolescents with suicidal behaviour: a scoping review

Milou Looijmans^{1,2} · Diana van Bergen³ · Arne Popma² · Nikki van Eijk¹ · Saskia Mérelle¹ · Sisco van Veen^{1,4} · Keith Hawton^{5,6} · Renske Gilissen¹

Received: 25 August 2023 / Accepted: 28 November 2023 / Published online: 26 December 2023 © The Author(s) 2023

Abstract

Suicidal behaviour in adolescents is a major public health problem. Much research on this issue has focused on epidemiology and risk factors for suicidal behaviour, paying less attention to the self-perceived needs of adolescents. However, to increase engagement in suicide prevention, it is important to include the views of adolescents. A scoping review was performed to identify the available empirical study findings, of any study design, related to the self-perceived needs of adolescents with suicidal behaviour. The literature databases Medline, Embase, Psycinfo, CINAHL, ERIC, Scopus, and Web of Science were searched. Twenty-nine studies from 14 predominantly Anglo countries were included in the scoping review. The review showed that girls were overrepresented and that studies predominantly used qualitative approaches. The identified needs of adolescents with suicidal behaviour can broadly be grouped into needs related to the following areas: the importance of connecting with other people; adolescents' self-help strategies and personal growth after self-harm; mental healthcare; school or study programs; and needs related to society in relation to taboo on suicidal behaviour. Prevention of suicidal behaviour in adolescents will need to focus on development and strengthening of interventions fitting the needs of adolescents in these areas.

Keywords Suicide · Self-harm · Prevention · Adolescents

Introduction

Adolescence is a vulnerable period for the development of mental health problems and specifically suicidal thoughts and behaviour. Although suicide deaths in children are relatively uncommon, the prevalence of both suicide and

- Milou Looijmans m.looijmans@113.nl
- Research Department, 113 Suicide Prevention, Amsterdam, The Netherlands
- ² Child and Adolescent Psychiatry & Psychosocial Care, Amsterdam UMC, Amsterdam, The Netherlands
- Faculty of Pedagogical and Educational Sciences, University of Groningen, Groningen, The Netherlands
- Department of Psychiatry, Amsterdam UMC, Amsterdam, The Netherlands
- Centre for Suicide Research, University Department of Psychiatry, Warneford Hospital, Oxford, UK
- Oxford Health NHS Foundation Trust, Warneford Hospital, Oxford, UK

suicidal thoughts and behaviours increases throughout adolescence [1]. Suicide rates have increased in several countries throughout the world in recent years [2–6] and suicide is one of the leading causes of death among adolescents worldwide [7]. In this article, we are using the term 'adolescents with suicidal behaviour' to refer to adolescents with (a recent history of) suicidal ideation, suicide thoughts, suicide plans, and/or self-harm [8].

Important risk factors for suicidal behaviour in adolescents include, among others, social and educational disadvantage, childhood and family adversity (including trauma as child abuse, parental divorce or death), psychopathology, and social contagion [9, 10]. Two of the most important predictors of suicide in young people are engaging in self-harm [11–14] and making a suicide plan [15, 16]. Research on the perspective of adolescents of their suicidal behaviour and their specific needs is important but appears to be scarce when compared to research focusing on risk factors, risk assessment, prediction, and interventions [17–19].

However, taking into account adolescents' own perspectives on their needs is very important. For example, young



people repeatedly stress the importance of informal support, such as family, friends, and school during the times when they feel suicidal [20, 21]. Including these viewpoints is essential to guide the direction of policy and suicide prevention [20–23]. The self-perceived needs of adolescents to recover or to prevent relapse into suicidal behaviour seem to have become somewhat more important in research in the last years [24–26] but as far as we are aware the findings have not been assimilated in a review.

Also, potential gaps in our knowledge are undefined. In this scoping review, we present findings from studies that report on the self-perceived needs of adolescents with suicidal behaviour and also identify gaps in the research.

Methods

Protocol and registration

This scoping review was performed according to the PRISMA guidelines for such reviews and preregistered with the Open Science Framework on April 28, 2022 (https://osf.io/p43bq/) [27].

Eligibility criteria

To be included, articles needed to have included adolescents who were currently suicidal or engaged in self-harm or were so in the past. Adolescents were defined as young people aged 10-25 years, since this age range corresponds most closely to adolescent growth and development to young adulthood [28]. Studies were included if they described the needs of adolescents with suicidal behaviour according to their own opinion or expressed feelings. The term 'needs' could refer to all areas of life, such as healthcare, school, personal relationships, family, etc. Peer-reviewed journal articles of any type of study design were included, whereas evaluation studies of specific interventions were excluded, because adolescents' opinions on specific treatments or interventions were beyond the scope of this review. Discussion articles that did not report new empirical research (e.g., commentaries and editorials) were excluded.

Information sources and search

To identify potentially relevant articles, the following databases were searched up to February 18, 2022 and this search was updated on May 1, 2023: Medline, Embase, Psycinfo, CINAHL, ERIC, Scopus, and Web of Science. A librarian was consulted to effectively search the databases for the three research domains: (1) adolescents or youth; (2) self-harm and/or suicidal behaviour; (3) needs, wishes, and demands. The final search strategy for PubMed can be found in Additional file 1. The search results were exported into EndNote, and duplicates were removed by the librarian. Reference lists of relevant articles and reviews were manually searched.

Selection of sources of evidence

All identified records were uploaded to a software program called Rayyan that facilitates the screening procedure in conducting literature reviews [29]. The selection procedure involved: (1) screening on title and abstract, and (2) full-text review. Titles and abstracts of each article were independently screened by two reviewers (ML and NvE). Disagreements during screening were resolved by discussion with a third reviewer (DvB). The same procedure was followed for the selection of the full-text articles.

Data charting and data items

The data extraction form was developed and revised during the data collection process in Microsoft Excel by two researchers (ML and NvE). Data were extracted regarding publication characteristics (country of origin, year of publication, and authors), study characteristics (purpose, setting, methods, and results) and participant characteristics (number, age range, and type of suicidal behaviour).

Critical appraisal

Two researchers (ML and NvE) recorded the characteristics and methodological quality of each study using the Critical Appraisal Skills Program (CASP) [30], selecting the specific checklist associated with the methodology of each particular article. A third researcher (DvB) independently checked a random subsample of 20% and the results were consistent with the first appraisal.

Synthesis of the results

Two researchers (ML and NvE) independently listed what type of needs each study examined, and, through an iterative process and discussion with the other authors, grouped the needs into five categories and summarized the type of settings, populations, and study designs.

Results

Sources of evidence

After identifying 6819 articles, all of which included abstracts in English, 29 studies were included in the review. Of the 87 full-text articles, one article was written



in French which we had translated into English. The PRISMA flow diagram in Fig. 1 gives an overview of the systematic source and selection process for the scoping review.

Eight studies were from the UK [21, 31–37], four from USA [38–41], three from Canada [42–44], two from each of Finland [45, 46], Ireland [47, 48], and Sweden [49, 50] one from each of Pakistan [51], Australia [52], New Zealand [23], South Africa [53], the Netherlands [54], Brazil [55] and Portugal [56], and one from Belgium, USA and Australia combined [57]. All studies were published between 2003 and 2023. Age of the participants ranged between 11 and 32 years at the time of study participation (all had experienced suicidality/self-harm while aged 10–25 years). A total of 1537 adolescents were included. The gender of participants was unknown for 538 adolescents. Of the remaining 999 adolescents, 166 were male and 828 female. Five adolescents defined there gender as 'other' (three as non-binary, one as transgender and one self-described as She/They). There were four studies that focused specifically on self-harm without intention to die [38, 41, 52, 57]. The remaining studies had included participants with an intention to die or participants who engaged in self-harm regardless of the intention or both. Seventeen studies recruited a clinical sample [23, 31, 32, 34–37, 39, 40, 43, 44, 47, 49–51, 54, 56], 11 studies

Fig. 1 Flow diagram of the systematic search and selection process

recruited a non-clinical or mixed sample [21, 38, 41, 42, 45, 46, 48, 52, 53, 55, 57] and the sample of one study was not described [33].

The included studies were of variable quality, as shown in Table 1. Table 2 provides an overview of the study characteristics and the needs of adolescents with suicidal behaviour found in the reviewed literature.

Synthesis of results

The needs of adolescents with suicidal behaviour found in the 29 articles can be categorized into the following themes: (1) connecting with others, (2) self-help strategies and personal growth, (3) mental health care, (4) school, and (5) general public.

Needs related to connecting with other people

The vast majority of 'needs' of adolescents with suicidal behaviour were related to connecting with other people [21, 23, 31–34, 36–40, 42–45, 47–51, 53, 54, 56, 57].

Support through connecting and recognition In a study from New Zealand, connecting with others was described by adolescents as a key strategy to prevent self-harm. More precisely, connecting was described as helping with

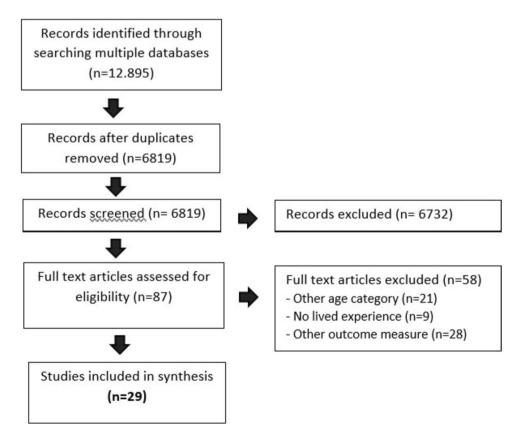




Table 1 Critical appraisal of included studies

First author	Year C	Clear statement of the aims?	Is a qualitative methodology appropriate?	Was the research design appropriate to address the aims of the research?	Was the recruitment strategy appropriate to the aims of the research?	Were the data collected in a way that addressed the research issue?	Has the relationship between researcher and participants been adequately considered?	Have ethical issues been taken into consideration?	Was the data analysis suffi- ciently rigorous?	Is there a clear statement of findings?	Is the research valuable?
Aspaslan	2003 Y	Yes	Yes	Yes	Yes	Adequate	Adequate	Adequate	Can't tell	Yes	Yes
	2009 Y	Yes	Yes	Yes	Yes	Can't tell	Can't tell	Yes	Yes	Yes	Yes
Bolger	2004 A	Adequate	Yes	Can't tell	Yes	Can't tell	Can't tell	Can't tell	Can't tell	Yes	Yes
Bostik	2007 Y	Yes	Yes	Yes	Yes	Adequate	Can't tell	Yes	Adequate	Adequate	Yes
Doyle	2018 Y	Yes	Yes	Adequate	Yes	Yes	No (But not	Yes	Yes	Adequate	Yes
							it was an anony-				
Fortine	7008 Y	Yes	Yes	Ademate	Adequate	Adequate	Can't tell	Yes	Yes	Yes	Ves
		Yes	Yes	Can't tell	Can't tell	Can't tell	Can't tell	Yes	Adequate	Yes	Yes
hs		Yes	Yes	Adequate	Yes	Adequate	Can't tell	Yes	Adequate	Yes	Yes
Pugnaire Gros	2012 Y	Yes	Yes	Can't tell	Can't tell	Can't tell	Can't tell	Can't tell	Can't tell	Adequate	Yes
Hansson	2020 A	Adequate	Yes	Yes	Yes	Yes	Adequate	Yes	Adequate	Yes	Yes
Hasset	2017 Y	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hetrick	2020 Y	Yes	Yes	Yes	Yes	Yes	Adequate	Yes	Yes	Yes	Yes
Holland ^a	2020 Y	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Yes	Yes	Yes
Idenfors	2015 A	Adequate	Yes	Can't tell	Yes	Yes	Can't tell	Yes	Adequate	Yes	Yes
Kaijadoe	2023 Y	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Yes	Yes	Yes
Kelada	2016 Y	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Adequate	Adequate	Yes
Kruzan	٠.	Yes	Yes	Adequate	Yes	Yes	Can't tell	Yes	Adequate	Yes	Yes
Marraccini	2021 Y	Yes	Yes	Adequate	Yes	Yes	Can't tell	Yes	Yes	Yes	Yes
McAndrew	2014 Y	Yes	Yes	Yes	Can't tell	Can't tell	Can't tell	Yes	Adequate	Adequate	Yes
Miettinen	2021 Y	Yes	Yes	Yes	Yes	Adequate	Can't tell	Yes	Adequate	Yes	Yes
Miller	2021 Y	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Yes	Yes	Yes
Naz	2021 Y	Yes	Yes	Yes	Yes	Adequate	Can't tell	Yes	Yes	Yes	Yes
Oliveira		Adequate	Yes	Adequate	Adequate	Adequate	Can't tell	Yes	Can't tell	Can't tell	Yes
Rissanen	Z009 Y	Yes	Yes	Yes	Yes	Adequate	Can't tell	Yes	Adequate	Yes	Yes
Rouski	2021 Y	Yes	Yes	Yes	Yes	Can't tell	Yes	Yes	Adequate	Adequate	Yes
Simoes	2021 Y	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Adequate	Yes	Yes
Tillman	2018 Y	Yes	Yes	Yes	Yes	Can't tell	Can't tell	Yes	Adequate	Yes	Yes
Vélez-Grau	2018 Y	Yes	Yes	Yes	Yes	Adequate	Can't tell	Yes	Adequate	Adequate	Yes
Wadman	2017 Y	Yes	Yes	Yes	Yes	Yes	Can't tell	Yes	Adequate	Adequate	Yes

^aThe article by Holland et al. [32] was not entirely qualitative in nature, but after comparing all CASP checklists, the qualitative studies version seemed most appropriate



overcoming feelings of isolation, in dealing with negative thoughts and in increasing a sense of safety and being cared for [23]. Also, in the process from suicidality to recovery, supportive relationships with others were mentioned to be crucial [31, 42, 43]. According to the adolescents, supportive contacts can include parents, peers, family, extra-familial adults, and professionals, but also spiritual or religious connections [42, 43].

One study from the UK found that the initial recognition that help is needed often comes from connected external contacts, such as parents, friends, or schoolteachers, rather than from the adolescents themselves [31]. In another UK study, adolescents suggested that once they were engaged in regular meetings with an adult confidant (whether or not this was a professional), they eventually found the courage to reveal that they had been self-harming [33]. Although five young men (in a small qualitative sample of eight young men from the UK), indicated that they benefited from contact with an adult man; gender of the influential other was not seen as crucial in the process of recovery by these individuals [31]. Furthermore, having good accepting relationships with others also helped adolescents to feel more confident about themselves according to a Canadian study: "I got connected with one person...there was somebody there who thought something of me, more than that I was useless and never going to amount to anything...." [42].

In a study of adolescents in a community sample from the UK who reported self-harm, the researchers asked the question 'What do you think can be done to help prevent young people from feeling that they want to harm themselves?' the most frequent response was 'listening to them and talking to them' (27% of 318) [21]. Adolescents in this study [21] underpinned the importance of someone who is 'there for them' and for providing support to those who feel like harming themselves: "People want to listen to their problems, give them confidence, be there for them, don't let them down, show them you like them and you want to help them". More girls than boys mentioned aspects relating to talking, listening, and providing general support [21]. Also, with regard to self-harm, adolescents in another UK study valued the presence of someone who can show individual acceptance, empathy, understanding, and unconditional positive regard. This was evident in both outpatient and inpatient relationships [36]. In an Irish community study, in response to the question 'what can prevent self-harm?', the majority of adolescents who self-harmed, also answered 'talk to someone' (39.6% of 71). For the most part, peers were the preferred source of help as there was the belief as they would understand better and speaking to a parent or other adult would result in actions that were unfavorable for the adolescent [48]. In a study from Pakistan, adolescents with experience of self-harm mentioned emotional ventilation and having a confidant as suggestions regarding type of help that they

thought can benefit adolescents who self-harm: "I think discussion is important, those who do not do this suffocate themselves from inside, and sharing can help to relax" [51].

According to a Finnish study, adolescents in residential care thought any person who knows about the self-harm can help. That is, friends of similar age (including fellow self-harming adolescents), and loved ones and adults (including unknown adults, health and social care professionals, teachers, counselors, and parents). Adolescents in this study mentioned contact with friends as most helpful in preventing self-harm (46% of 53) [45].

Needs from health care providers Studies found that adolescents need to perceive healthcare providers as 'sincere', 'open', 'listening', 'understanding', 'always up front', 'reliable', 'non-judgmental', 'confidential', and 'completely consistent' [33, 43]. In a study from the UK adolescents described they need staff to be genuinely interested and willing to engage in meaningful shared activities. Staff also need to show care and concern about the well-being of the adolescents and respond to incidents of self-harm in a validating and non-judgmental manner. Adolescents in this study described needing different responses at different times, and valued staff who were able to respond flexibly to these changes [37]. In a Dutch study, adolescents in secure residential youth care described what they experienced as responsive from their group workers in relation to suicidality. Their answers centered around experiencing proximity, commitment, trust, and connection [54]. In a Swedish study, having a good connection with a professional was reported as more important to adolescents than the professional being someone from a specific profession [49]. In addition, a study from the UK showed that, when professionals offer care perceived as genuine, this provides adolescents with a sense of safety and trust in 'a parental figure' who could notice and contain their distress. Adolescents need professionals to understand them, and particularly to understand the reasons for and background to self-harm in the context of their lives [34]. Moreover, adolescents would like professionals to see them from different perspectives and to focus more on their strengths than on their problem behaviour. Also, a study from USA found that adolescents need professionals to hear directly from them before seeking other sources of information, for example from their parents [39].

According to a South-African study, when adolescents were asked after a suicide attempt what they would have liked to have been different in hospital care, they mainly focused on medical staff-patient relationships. The majority of adolescents would have liked 'more communication' from the medical staff, 'more time and attention' from them, and 'more caring and supportive treatment'. In a setting where social workers were available, adolescents also mentioned that they would have had preferred more time alone with



Table 2 Study characteristics and the needs of adolescents with suicidal behaviour

idole 2 Study chara	iable 2 Study characteristics and the needs of adolescents with suicidal denayion	is of audicscents wit	tii saiciaai ociiaviou					
First author, Publi-Study purpose cation year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Aspaslan, 2003, South Africa	Study the experi- ences and needs of adolescents who have attempted suicide	N = 17	13–18	1 male/16 females Attempted suicide		Participants were adolescents who had attempted suicide in a specific region	Semistructured interviews	What should have been differently after attempt: Parents: mothers more available to talk to. Hospital staff: more communication, time, attention. Social workers: more time with them alone to talk about attempt
Bergmans, 2009,	Understand the transition to safer behaviors and to provide clinical suggestions for those who provide care to this population	N = 16	18–25	2 males/24 females	Attempted suicide Participants were initia assessed fc admission to the PIS, interventio (a multimo group inter tion for pee with recur- rent suicid attempts)	Participants were initially assessed for admission to the PISA intervention (a multimodal group interven- tion for people with recur- rent suicide attempts)	Semistructured interviews	Relevant in transition to recovery: learning that there were choices and learning that feelings were a part of the human experience. Family, friends, and professionals were identified as important for support and education. Helpful professionals were identified as sincere, open, listening, and understanding, always up front and completely consistent. All participants identified participation in the PISA group as the single most significant experience



-
ine
ntin
3
e 2
픙
ᆵ

First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Bolger, 2004, Ireland	Review the clinical presentation, and AED clinical response to suicidal crisis and to carry out a follow-up	Z 3	14–20	9 males/22 females	Suicidal ideas or self-harming behaviour	Participants attended a hospital A&E department with suicidal behaviour in last 12 months	Semistructured interviews	Support or services that would have been helpful at time of suicidal behaviour: having someone to talk to, having a close friend or a parent to confide in, and having someone to confide in outside of the family. Advice they would give to someone who felt like self-harming: talk about their feelings to someone they trust. What else is important: having young people who have experienced mental health difficulties in the past working in any services for young people; services specifically for young people; services specifically for young people; acsay access to mental health professionals at any facility for young people;
Bostik, 2007, Canada	Develop an understanding of adolescents' perceptions of the role of attachment relationships in the process of overcoming suicidality	N = 50	13–26 (Suicidal experience 13–19)	9 males/41 females	Suicidal ideation and/or suicidal behaviour (with an intent to die)	Participants were recruited through newspaper advertisements and brochures mailed to com- munity service agencies in two regions	Semistructured interviews	Important in process of healing: 1. Attachment relationships (parents, peers, extra-familial adults, spiritual connections) 2. Experiences of attachment (finding acceptance, having a permanent relationship, receiving encouragement, experiencing intimacy and closeness) 3. Changing self-perceptions (Positive interactions with others helped to see that they were important, capable people who others thought had worth and potential)



ship and peer interactions 8.

Public education 7. Friend-

(stigma, confidentially) 6.

barriers help-seeking

Activities 9. Substances 10.

Media (prevention, reduc-

tion, stigma)

(n=23) Focus on precipitating situation (n=15) Profesmal organisations 5. Reduce help prevent young people Top 10 what can be done to health (n = 10) Nothing can be done (n=6) Don't know want to harm themselves: 1. School (exams, someone them 3. Family (more love, talking, problems) 4. Forsional help (n = 10) Raise (n=4) alternative coping teachers) 2.Talk/listen to harm: Talk to someone awareness about mental to talk to, bullying, and from feeling that they What can prevent selfmechanisms (n=3)Needs Self-report ques-Coping survey Lifestyle and Two items of anonymous self-report the 6-item tionnaires Method Participants were Participants were recruited from recruited from mary schools 41 secondary 11 post-prischools Context Deliberate self-Male/female/other Type of lived experience Self-harm NA^d NA^{b} Age at time of study 15-17 15-16 Sample size $N = 318^{\circ}$ $N = 58^{a}$ Determine the prevand their perspecate self-harm and factors associated alence of delibertives on preventabout self-harm cents' attitudes Identify adolesing self-harm Study purpose with it Table 2 (continued) First author, Publi-Fortune, 2008, UK cation year, Origin Doyle, 2018, Ireland



Table 2 (continued)

First author, Public Study purpose Sample size Age at time of Male/Female/other Type of lived Coniext Method Stady Stady Self-injury with Prost, 2016, Aus. Stady Stad	(
Survey young N=457 Mean age 18 58399 Self-injury (with - Participants Internet survey Pool intention to people with a history of self-injury about their perception and perfect certoics in regard to development of online services and young people and young people and young people and staff on how staff should respond to incircle on the people of services and staff on how staff should respond to incircle only and staff on how staff should respond to incircle only and staff on how staff should respond to incircle only and staff on how staff should respond to incircle only inputent settings	First author, Publication year, Origin	Study purpose		Age at time of study	Male/female/other	Type of lived experience	Context	Method	Needs
To understand the N=6° 13–17 I male/5 females Self-harm Participants were Semistructured views of children and young people (CYP), parents and staff on how staff should respond to incidents of self-harm carried out by CYP in mental health inpatient settings	Frost, 2016, Australia	Survey young people with a history of self-injury about their perceptions and preferences in regard to development of online services for self-injury		Mean age 18 (SD=2)	58/399	Self-injury (without intention to die)	Participants were recruited via a variety of online and offline sources	Internet survey	Preferred sources of potential online support for self-injurious behaviour (from a list): an online service with direct links to professionals in real time via instant messaging; peer support such as online forums and chat rooms; online self-help programs; information provided in text or fact sheets. Most important in an online support service for self-injury: Information; guidance; reduced isolation; online culture; facilitation of helpseeking; access; privacy
	Griffiths, 2022, UK	To understand the views of children and young people (CYP), parents and staff on how staff should respond to incidents of self-harm carried out by CYP in mental health inpatient settings	ν = 6° Ν	13–17	l male/5 females	Self-harm	Participants were recruited from children and young people's mental health services	Semistructured interviews	Important staff responses: be genuinely interested, willing to engage in meaningful shared activities. Convey care and concern about the well-being of the CYP they are working with, and that they respond to incidents of self-harm in a validating and non- judgemental manner. CYP described needing different responses at different times, and valued staff who were able to respond flexibly to these changes



First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Gros, 2012, Canada	Gros, 2012, Canada Identify the nursing interventions considered beneficial from the patient's perspective	6 = N	15–18	2 males/7 females Suicidality	Suicidality	The participants had all experienced at least one suicide risk episode in the past year, for which they followed treatment in a psychiatric care unit	Qualitative interviews and a quantitative questionnaire	Nursing categories considered beneficial by adolescents at risk of suicide: -Give daily support in a human and individualized way -Work together with the adolescent to manage suicide risk -Create a physical and social environment that promotes
Hansson, 2020, Sweden	To increase knowledge and understanding of different aspects of life for adults with severe self-harm during adolescent inpatient stays	Z = Z	29–32 (Suicidal experience 14–17)	NA	Self-harm	Participants were young adults who, when adolescents, had engaged in severe self-harm during inpatient stays in hospital	Semistructured interviews	Positive treatment experiences: Treatment contacts that lasted for several years, building up close relationships, were reported as valuable for improved health. Pharmacological treatment was felt to be useful when prescribed together with psychotherapy. Recovery: Finding a context in which other people regarded the respondents as healthy was important and also being of value to others



7	4
-	٠.
Q.	
-	+
-	=
_	2
	4
+	٠
_	-
-	7
- (
ď	7
_	_
`	_
_	ر
c	ر ا
C	1
ر م	1
ر م ا	1
رماد	101
2	102
colde	7 7 7 7 7 7
Caldel	7 7 7 7 7 7
Caldel	7 7 7 7 7 7

First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Hasset, 2017, UK	Explore how young men understand their journey of help-seeking and how their experiences led them to continue to seek help after initial access	∞ ∥ Z	16–18	8 males	Self-harm (cut- ting, overdose, scratching, burning, stran- gulation, head banging, punch- ing walls)	Participants were currently receiving care from CAMHS, from four National Health Service CAMHS clinics	Semistructured interviews	Important themes in journey of help-seeking: 1. Important role of external adult in recognizing, normalizing, and initiating help-seeking 2. Challenging and renegotiating perception of need for help and the meaning behind this need (recognition of need for help, challenging gender norms). 3. Maintaining an independent self (Choice and control, non-face-to-face methods to communicate distress). 4. Mechanisms of engagement (Developmentally sensitive approach taken by clinician, in-session techniques, shared experience)
Hetrick, 2020, New Identify both spe- Zealand cific triggers of the urge to self-harm, and helpfi strategies to manage this urge to engage in self harm behaviors	Identify both specific triggers of the urge to self-harm, and helpful strategies to manage this urge to engage in self-harm behaviors	N = N	18–24	2 males/5 females	Suicidal ideation and/or self-harm (irrespective of intent)	Participants were recruited from a tertiary youth mental health service and several secondary mental health services	Semistructured interviews	Themes with regard to self -help strategies that could be used when resisting the urge to self-harm: 1. The importance of having a diverse set of strategies 2. The importance of connecting with others 3. Changing the direct environment



(pan
ntin
3
7
a

lable 2 (continued)								
First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other	Type of lived experience	Context	Method	Needs
Holland, 2020, UK	Answer the questions: What services do young people who self-harm find most and least helpful? Are there differences between the views of looked-after young people and those who have never been in care with regard to what they find supportive to promote recovery and reduce distress? What support would young people like which they are not currently receiving?	N = 126	11–21	20/106	Self-harm (with or without intent)	Participants were recruited from CAMHS (both inpatient and outpatient services) and Children's Services (social care) and were identified in the community through self- harm organisa- tions, youth clubs, second- ary schools, leaflets, social media and a project website	An Audio Computer-Assisted Self-Interview (Participants hear the questions read aloud over headphones and give the appropriate response with a mouse click)	rop 10 of most helpful services: 1 Friends 2. Distraction techniques 3. Pets 4. Boyfriend/girlfriend 5. Exercise 6. Harm minimisation 7. Counseling 8. Teacher 9. Parent 10. Websites
Idenfors, 2015, Sweden	Explore young people's views of professional care before first contact for DSH, and factors that influenced the establishing of contact	N = 10	17–24	4 males/6 females	Deliberate self- harm (regardless of intent)	Participants were presenting at a hospital after self-harm	Semistructured interviews	Important factors regarding professional care: 1. Need for many possible routes to professional care 2. The importance of immediate help 3. The importance of family and friends when overwhelmed by emotional storms 4. The importance of the perceived quality of contacts



ned)
contin
ت 7
ē
Τa

(
First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Kaijadoe, 2023, the Netherlands	Explore how adolescents value group workers responses towards suicidal behaviour and the impact of these responses on adolescents, as well as on the group climate	N = 11	12–18	11 females	Suicidal behaviour and non-suicidal self-injury	Participants were recruited from Secure Residential Youth Care	Semistructured interviews	Important themes in responsive reactions by group workers: trusting the group worker, listening calmly without taking over control or being judgemental, being able to talk freely about suicidality with group worker, proximity, a hug, distraction, connectedness and showing feelings and emotions (by group workers)
Kelada, 2016, Australia Belgium USA	Understand similarities across three samples in (a) how young people define recovery from NSSI and (b) what they consider helpful approaches taken by parents and professionals to assist their recovery	N = 98	12–26 ^f	23 males/75 females	Non-suicidal self- injury	Participants were recruited from second- ary schools (as part of a larger study)	Australian and Belgian young people com- pleted question- naires, while American young people participated in interviews	Most helpful responses from parents: supportive and calm communication. Most helpful responses from mental health professionals: feeling supported, engaged, and not judged
Kruzan, 2022, USA	Understand the self-management practices of young adults who engage in NSSI, explore how they currently use technologies for self-management, and identify the ways they can envision an appbased technology supporting their self-management self-management.	N = 20	18–25	2 males/13 females/5 other	Non-suicidal self- injury	Recruited from online venues	Semistructured interviews	To improve self-man- agement strategies: An app-based technology track patterns and deliver personalized suggestions for self-management



<u> </u>	Table 2 (continued)					
Spri	First author, Publi-	Study purpose	Sample size	Age at time of	Male/female/other 7	Type of lived
in	cation year. Origin			study		experience

First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Marraccini, 2021, USA	Explore adolescent perspectives of returning to school following psychiatric hospitalization for suicide-related crises	N = 19	13–18	2 males/17 females	Hospitalization for Participants were suicide-related recruited from behaviors (i.e., a psychiatric suicide plans and attempts)	Participants were recruited from a psychiatric hospital	Semistructured interviews	Recommendations to schools for improving reintegration: 1. Supports and services (providing monitoring during the initial period return, providing a gradual return, providing support around work completion) 2. Adult relationships (connecting with adults upon return and the ways in which adults should work to get to know returning adolescents and not overly focus on academics). 3. School-wide issues (awareness and training around mental health issues)
McAndrew, 2014, UK	Elicit the narratives of young people who engage in self-harm and suicidal behaviour, in order to identify what was helpful and/ or unhelpful, and what their future needs might be from a diverse range of statutory and non-statutory services	Z = Z	13–17	7 females	Self-harm and/or suicidal behav- iour	₹ Z	Narrative interviews	What would be helping: -Service providers: being listened to; not being judged; confidentiality; trust; and being given an opportunity to talk to somebody independent of family, friends, or the school -More help within school context -Increase knowledge about self-harm to the wider population -Regular meetings with an adult confidant



$\overline{}$
<u> </u>
\cdot
40
\simeq
$\overline{}$
_
\vdash
-
_
=
0
\overline{a}
. •
೨
٣
٣
ت
<u>ی</u> م
<u>ت</u>
ت
<u>ت</u>
<u>ت</u>
<u>ت</u>
able 2 🤅
<u>ت</u>
able 2 🤅

First author, Public Study purpose Sample size at time of Male/female/other Type of lived Context Method Study purpose study and seculton year, Origin Miletra, 2021, UK Describe what stand self-harming adolescents faced multiply adolescents faced self-harming adolescents faced self-harming adolescents faced self-harming adolescent faced self-harming self-harming self-harming self-harming self-harming adolescent faced self-harming	iable 2 (continued)								
Describe what N=27 Participants did Both males and Self-harm kind of help do self-harming ado- self-ha	First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other	Type of lived experience	Context	Method	Needs
Deepen understand- N=9 13–17 9 females Self-harm Participants Semistructured II were current interviews experience of female adolescent self-harm self-harm	Miettinen, 2021, Finland	Describe what kind of help do self-harming adolescents receive, what kind of experiences do self-harming adolescents have about help, and what kind of barriers to help have self-harming adolescents faced		Participants did not report their age (Suicidal experience 12–22)	Both males and females (not all revealed gender)	Self-harm	Participants were recruited through the support associations websites, and closed discussions in internet sup- port forums, in a youth rehabilitation unit, and in one hospital	Essays (N = 27) and semistruc- tured inter- views (N = 2) (2 participants did both)	Positive impacts of treatment: The returning ability to work through medication, the possibility of gathering oneself through medication, a helpful period in electroconvulsive therapy, and ceasing cutting due to therapy. Conversational help for depression had also been helpful for self-harm. Psychiatric in-ward treatment had helped so that the adolescent in the ward was constantly monitored, tools that made it possible to self-harm were confiscated, and feelings of being unwell or anxiety decreased in the ward. Self-help: Among others increasing resilience by mental growth and getting rid of guilt about illness
	Miller, 2021, UK	Deepen understand- ing of the lived experience of female adolescent self-harm	6 = N	13–17	9 females	Self-harm	Participants were current Cambridge NHS CAMHS patients	Semistructured interviews	Important in 'not self-harming': the presence of someone who can show individual acceptance, empathy, understanding and unconditional positive regard



lable 2	ez (conunued)	(1)						
First	author, Publi-	First author, Publi- Study purpose	Sample size	Age at time of	Male/female/other Type of lived	Context	Method	Needs
catio	cation year, Origin			study	experience			
;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		71 12	7	131-0 -1			7 0

First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Naz, 2021, Pakistan	Explore the perspective of adolescents in order to identify predisposing factors of self-harm, perceived consequences, reactions of family members and their needs for services including what an acceptable psychosocial intervention would be like	N = 16	14-17	7 males/9 females	Self-harm	Participants were recruited from a public hospital	Semistructured interviews	Suggestions regarding type of help: -The role of emotional ventilation and having a confidant -Distraction techniques and behavioural activation in the form of activity scheduling as well as the role of learning better ways to solve problems -Adolescents can be encouraged and motivated through use of stories from lives of famous people/celebrities -Involving family members in any intervention being offered to the self-harm survivors
Oliveira, 2022, Brazil	Analyze the occurrence and characteristics of self-injury among adolescents in a public school	N = 66	11–16 (entire sample) ^g	41 males/71 females (entire sample)	Self-injurious behaviour	Students from a public school	Questionnaire with closed and open questions	Needs from school: Adolescents expressed a demand for a responsive and careful dialog, stating that the school needs support to discuss the topic of self-injury, as adolescents who harm themselves do not speak out



_
continued
$\overline{}$
7
<u>•</u>
0
a.

Table 2 (continued)								
First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Rissanen, 2009,	Describe help from the viewpoint of self-mutilating Finnish adolescents	N = 72 (62 emails and 10 interviews)	Emails: 12–21 Interviews: 15–19	62 emails: NA 10 interviews: 10 females	Self-mutilation (self-cutting)	Participants were recruited through adver- tising the study in four maga- zines targeted at adolescents, on magazine Web sites, and on the princi- pal researcher's own Web site	descriptions of help via email and 10 individual interviews	Who can be a helper: Any person who knows about the self-mutilation can be a helper (age mates, loved ones, adults (including unknown adults, health and social care professionals, teachers and counselors and parents)) Factors that enabled help-seeking: Becoming conscious of being in need of help, knowledge of self-mutilation as a phenomena, knowledge of the available of help for selfmutilation, caring environment, all kinds of support from friends, peers and parents Helpful factors: Being conscious of ones need for help, enabling early and practical intervention, interventing in adolescent problems, learning to discuss in general and especially about self-mutilation and all kinds of emotions and difficult experiences with someone, authentic caring for the adolescent, adolescents own activities



<u>~</u> `
$^{\circ}$
4)
$\underline{\mathbf{v}}$
$\overline{}$
=
=
-⊟
+
=
\sim
~
\circ
$\overline{}$
Ξ.
7
Ф
_
9
ъ.
ם

First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Rouski, 2021, UK	Exploring the experiences of young people who self-harm in residential care settings with a particular focus on understanding how the relational context of the setting, including staff responses, affects their experience	N = 2	14–18	2 males/3 females	Self-harm (regard-less of motivation or intent)	Participants were recruited from four therapeutic residential care homes run by two residential care providers	Semistructured interviews	Needs regarding residential care: 1. Seeking genuine care and containment: where staff were experienced as offering genuine care, this provided participants with a sense of safety and trust in a parental figure who could notice and contain their distress. 2. The cry to be understood: young people's need for staff to understand them, and particularly for their self-harm to be understood in the context of their lives. Where the previous theme highlights the role of staff in helping participants to manage their self-harm and cope with the underlying distress, this theme reflects their need for staff to understand their self-harm in order to help them make sense of it themselves
Simoes, 2021, Portugal	Identify the protective factors of recurrent suicidal behaviours in adolescents; To describe the family and the expectations for future involvement; To know the most important aspects of hospitalization and discuss expectations of nursing care follow-up after hospital discharge	N = 33	13–18	9 males/24 females	Suicidal behaviour	Participants were young people admitted to a child psychiatric unit and having been clinically discharged afterwards	Semistructured interviews	Protective factors of recurrent suicidal behaviour: family, friends and other trusted people; the self and the new strategies learnt; follow-up and health professionals Expectations of post-discharge nursing follow-up: 'Keep in touch' Most important aspects of hospitalization: psychological support and health professionals; occupational activities; environment; learning Suggestions for service improvement:



Table 2 (continued)

lable 2 (continued)								
First author, Publication year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Tillman, 2018, USA	Understand the lived experiences of middle school girls who have engaged in NSSI and who have received professional help for those behaviors	N = 6	Mean age 13.8 (SD=0.41)	6 females	Non-suicidal self- injury	Participants were middle school students recruited using both a Face- book adver- tisement and a Facebook page designed specifically for the study	An online survey with a series of open-ended questions	What professionals should know about NSSI: I. Each person is unique 2. Helping people feel comfortable in counseling 3. Understanding the reasons for self-injury
Vélez-Grau, 2018, USA	Provide an opportunity for adolescents to voice their own perspectives and for researchers and clinicians to gain an understanding of adolescents' life experience away from the treatment setting, as well as their experience as consumers of mental health services	X 4	15–17	I male/3 females	Suicidal ideation and suicide attempts	Participants were recruited from a child and adolescent mental health clinic	Photovoice (method that involves focus groups and the use of cameras by participants to visually capture their reality and express their ideas through photographs)	Wishes and expectations for clinicians and treatment: 1. They would like clinicians to see them from different perspectives and to focus more on their strengths than on their problem-behaviors. 2. Adolescents felt it was important that clinicians heard directly from them before going to other sources of information, as was often their experience. 3. Adolescents would like to be informed and participate actively in decisions about their treatment



ತ
$\overline{}$
٣
٣
٣
<u>ٽ</u>
ڪ ح
ت 7
<u>ی</u>
د د ک

First author, Publi- Study purpose cation year, Origin	Study purpose	Sample size	Age at time of study	Male/female/other Type of lived experience	Type of lived experience	Context	Method	Needs
Wadman, 2017, UK	Gain insight into looked-after young people's perceptions and experiences of factors related to self-harm, and of interventions and services received, in order to improve future service provision. Examine how looked-after young people make sense of the experience of self-harm and resulting supports	N = 24	14-21	4 males/20 females	Self-harm	Participants had experience of living in foster care or residential homes	Semistructured interviews	Ways of stopping self-harm: Participants described how they had managed to develop their own coping techniques. This reliance on self-help seemed more sali- ent to the young people than clinical services, and was generally preferred

Doyle: of the 103 participants who self-harmed, 56% (n = 58) completed the open-ended survey question

Doyle: for the entire sample, the m/f ratio was 438/418

^cFortune: the entire sample was N = 2954

^dFortune: for the entire sample, the m/f ratio was 1368/1581

eGriffiths: the entire sample was N=17

Kelada: Australian sample (N=48) 12-18 years, Belgium sample (N=25) 17-19 years, American sample (N=25) 15-26 years

 g Oliveira: the entire sample was N=112



their social worker to talk about their suicide attempt [53]. Adolescents in a Canadian study expected nurses to give them daily support in a human and individualized way, to work together with the adolescent to manage suicide risk, and to create a physical and social environment that promotes recovery [44]. In a Portuguese study, the aspects adolescents who had been admitted to a child psychiatric unit with suicidal behaviour valued most about their hospitalization had to do with 'psychological support and health professionals' (for example 'knowing that people acknowledge and understand my pain') [56]. In a study of adolescents receiving mental health care in USA, some adolescents said that they would like to be more informed about their treatment direction and be able to participate more actively in decisions about their treatment [39]. The most helpful responses from mental health professionals mentioned by adolescents with non-suicidal self-injury in a cross-cultural study in Australia, USA and Belgium were 'supporting', 'engaging', and 'non-judging' responses [57]. Furthermore, according to a study from USA, mental health professionals needed to know that each young person with non-suicidal self-injury is unique; they should help adolescents to feel comfortable and need to understand the reasons for self-harm [38].

Peers with lived experience as source of support Adolescents in a South-African study who attempted suicide expressed the need for a support group where they could talk to other adolescents with the same experience [53]. In a study in Canada, a specific group based on a psychosocial/psychoeducational intervention for people with recurrent suicide attempts was appreciated, because it provided an understanding peer group [43]. Irish adolescents stressed the importance of having other young people who have experienced mental health difficulties in the past working alongside professionals in any service for young people [47].

Needs related to adolescents' self-help strategies and personal growth

Some of the identified needs were related to adolescents' coping skills or personal growth on the path from suicidal behaviour to recovery [23, 31, 32, 35, 41–43, 45, 46, 51, 56].

Self-help strategies A New Zealand study showed that when feeling the urge to self-harm, adolescents mentioned that how helpful a specific strategy is dependent on a range of different factors at a specific moment, such as mood, interests, and setting (e.g., home or school). Therefore, it is important for adolescents to have an understanding of their own triggers with an accompanying diverse set of strategies [23]. In a UK study, when asked about ways of stopping self-harm, adolescents in mental health care described how they had managed to develop their coping techniques. They

reported activities, such as art, music, and going for walks reportedly helped them to delay and distract from self-harm [35]. Immediately moving to another place was also noted as an important self-help strategy [23]. In another UK study, reliance on self-help in stopping self-harm seemed more salient to the young people than clinical services, and was generally preferred [35]. Finally, in a study from the USA, adolescents reported a desire for an app-based technology to track patterns and deliver personalized suggestions for self-management of self-harm [41].

Personal growth A Canadian study showed that adolescents who attempted suicide identified the following aspects as important on their road to recovery: learning that there are choices you can make in relation to your mental health, and that feelings are a part of the human experience. Feelings needed to be identified and tolerated to be understood and learned from:

"to be more comfortable with myself..."; "living a life that is really mine by the choosing, not by what society deems successful; or something astronomical and my first thought won't be dying, or cutting or getting drunk or getting high, it will be to cry and move on" [43].

Getting rid of the guilt about their mental illness was mentioned by adolescents as important in a Finnish study [46], and in a Swedish study, being of value to others and finding a context in which other people regarded the respondents as healthy were reported as important to adolescents [50]. In addition, a sense of control, independence, and autonomy are important in the process to recovery, even though this sometimes conflicts with needing good and supportive relationships [31, 49].

Needs related to aspects of mental health care

Another theme related to specific aspects of needs related to mental health services, such as access to appropriate youth mental health care [21, 44, 46, 47, 49, 50, 52, 56].

Accessibility of care Regarding access to professional care, in a Swedish study, adolescents reported that they would like to have a phone number, or a place they could visit, for immediate needs for contact, and information about the way the reception or Health Centre works. There appeared to be a need for several possible routes to accessing professional care: some adolescents preferred contact by phone, some by email, and others wanted to visit in-person. The importance of immediate help being available after making contact was also mentioned [49]. In addition, in an Irish study, the importance of having services that are easily accessible to adolescents and having easy access to mental health profes-



sionals at any facility for young people was also highlighted [47].

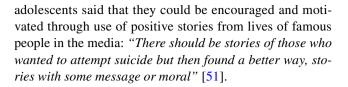
Online services Adolescents in a New Zealand study highlighted the value of helplines and online forums, because it made them able to connect anonymously with someone, with few consequences for being open and honest [23]. In an Australian study, adolescents were asked to identify preferred sources of potential online support for self-injurious behaviour, using a list of possible sources. The most popular suggestion was for 'an online service with direct links to professionals in real time via instant messaging'. Regarding online services in general, the following aspects were mentioned as important: guidance, information, reduced isolation, online culture, facilitation of help-seeking, access, and privacy [52].

Needs related to schools

Three studies described self-perceived needs of adolescents with suicidal behaviour related to schools [21, 40, 55]. In a UK study, when asked 'What do you think can be done to help prevent young people from feeling that they want to harm themselves', many responses of adolescents in a school-based survey with lived experience of self-harm indicated factors concerning school-related issues (35% of 318), such as alleviating the pressure of exams, having someone to talk to about issues apart from the teacher, reducing bullying (e.g., more effective policies) and teachers having more awareness of pupils having emotional problems [21]. In a Brazilian study, adolescents expressed a demand for a responsive and careful dialog, stating that the school (staff) needs support to discuss the topic of self-injury, as adolescents who harm themselves do not speak out [55]. Finally, a study from the US found that, when returning to school after hospitalization for self-harm, adolescents wished for a gradual return to catching up on work and support around work completion [40].

Needs related to the general public

Other needs identified by adolescents were related to reducing taboo and stigma around suicidal behaviour [21, 33, 51]. For example, male adolescents in a UK study indicated the importance of breaking the taboo against males seeking help for mental health problems [31]. Another UK study found that, when asked what could be done in the future to help others who self-harm, adolescents emphasized, among other things, the need to increase knowledge about self-harm in the wider population: "There should be more posters around. You see a lot of things on the television, alcoholics get a lot of help, like ring AA, but there's no help towards self-harm" [33]. Finally, in a study from Pakistan,



Discussion

This scoping review was conducted to answer the question 'What are the self-perceived needs of adolescents with suicidal behaviour?' An extensive and systematic search through peer-reviewed empirical literature identified 29 relevant studies. These studies differed in terms of purpose, participant demographics, method, and context. Almost half of the studies (13 of 29) were published in the last two years, which indicates that studying young people with lived experience of suicidal behaviour has become a lot more common in recent years and is increasingly considered important.

Unfortunately, there is a paucity of evidence regarding effective interventions for young people with suicidal behaviour [18]. Although the self-perceived needs of adolescents with suicidal behaviour discussed below are important to take into account, they should be seen as possible starting points for prevention, but they are not proven effective interventions in themselves.

Needs

The identified needs of adolescents with suicidal behaviour covered a wide range of topics. Of the 29 studies reviewed, the majority of needs of adolescents with suicidal behaviour were concentrated on social support and connecting with other people. Supportive connections could be with peers, parents, health care professionals, or any other kind of contacts. Previous research, often quantitative cross-sectional studies, indicates that greater social support is associated with lower suicide risk [58–60]. In addition to these findings, this scoping review showed that among adolescents with suicidal behaviour, there are also self-perceived needs for connection and social support, either preceding self-harm or during the aftercare of these episodes. Contact with peers who had similar experiences was mentioned in a number of studies as an important form of support [43, 47, 53]. Internet forums and social media are increasingly used as places where adolescents find peers who have also self-harmed to communicate about their suicidal feelings and distress [61]. This can be helpful, but at the same time can lead to potential harm in terms of normalizing, triggering, and contagion effects [61–64]. It is important to think about how peer support can be strengthened and used in an effective, safe, and structural way for adolescents who may benefit from this. In addition, a stronger focus is needed on letting adolescents



themselves think about beneficial ways peer support can help them

A substantial part of the included articles described adolescents' needs for beneficial self-help strategies and personal growth [23, 31, 32, 35, 42, 43, 45, 46, 51, 56]. The majority of these articles emphasize the importance (of having or mastering a diverse set) of self-help coping and distraction techniques for when suicidal tension or the urge to self-harm is high. These topics touch on mental health care where such techniques can be learned, practiced, and discussed. People in close contact with an adolescent with suicidal feelings should also realize the importance of such self-help strategies. Peers or gatekeepers may also be ideally suited to discuss or demonstrate certain techniques with an adolescent. Results of several studies indicate that adolescents often prefer self-help over reliance on clinical services [20, 35]. As a consequence, it seems very important to equip adolescents and their peers with the right tools to maintain their feeling of self-control and independence.

Many other identified needs were focused on the connection with adolescents' health care providers and the need of adolescents for health care providers to understand them [33, 34, 37, 39, 43, 44, 49, 53, 54, 56]. However, when suicidal tension is high, it is not always easy for health care providers to develop a good, collaborative therapeutic relationship. Also, finding the balance between safety of the patient and patient autonomy is often very challenging. It is, for example, important that health care providers know how and when to use 'therapeutic risk taking' (the avoidance of coercive measures to ensure safety in patients who self-harm and instead allow more room for patient autonomy), thereby using shared decision-making to maintain a strong therapeutic relationship to enable recovery [65].

Interestingly, only a small proportion of the identified needs in this review were related to adolescents' schools or study programs [21, 40, 55]. However, other studies have shown that school-based suicide prevention interventions can be effective [66, 67]. Given that a large proportion of adolescents spend a lot of time in school or college, this topic needs more research in relation to the self-perceived needs of adolescents in such settings.

Finally, a few articles discussed the needs of adolescents in the area of the 'general public' [21, 33, 51]. Adolescents remarked on the need to reduce stigma regarding self-harm in society, to increase knowledge about self-harm in the wider population, and for a greater focus on recovery through promotion of stories of well-known/famous people in society overcoming their difficulties [21, 33, 51]. Public awareness campaigns can be used to reduce stigma and taboo in the general public [68–71]. Such campaigns appear to be most effective when they are delivered as part of a broad suicide prevention strategy [68]. The evaluation of a campaign by the Dutch helpline 113 suicide prevention

showed that public awareness of the helpline was predominantly in younger people [72]. This specific example shows that it is very important to think about methods to tackle taboo and stigma among all layers of the population and to make information accessible to all target groups.

Limitations

Overall, there were approximately five times as many female as male participants in the included studies, which is somewhat greater than the sex ratio usually found for young people who self-harm [73]. This is probably explained by the greater participation of females in interview studies on sensitive topics [74, 75]. Furthermore, the studies included in this review were predominantly studies from Anglo countries with Western adolescents. Demographic characteristics regarding sexual orientation or gender identity of the participants were not presented in the studies. Furthermore, we included not only the studies that literally asked about needs, but also studies in which young people with lived experience provided any information about something that was helpful or what they experienced as positive during periods of suicidality. Due to this broad view, the variability in the nature of research focus and aims of the included papers presented a challenge for synthesizing the results of this review. However, we have employed every effort to synthesize the literature in a comprehensive way. Also, for further research, it is important to focus not only on 'needs' and thus the positive, helping aspects for the whole picture of prevention in young people with suicidal behaviour, but also on the aspects that have been unhelpful or criticisms that young people have. However, we believe that a focus on needs and on how to fulfill them is important to develop prevention targeted on youth. Although we deliberately chose the age group 10-25 years, age boundaries are arbitrary and the self-perceived needs founded in this review may also be relevant to emerging adults who were older than 25 years. Several studies show this slightly older age group also has self-perceived needs related to, among others, positive relationships and meaningful connections [76–80]. Finally, the reviewed studies varied in quality, but we tried to provide insight into the quality of each study using critical appraisal (see Table 1).

Conclusions

This scoping review identified studies on the needs of adolescents with suicidal behaviour in peer-reviewed literature. These can broadly be categorized into the following categories of needs: the importance of connecting with other people; adolescents' self-help strategies and personal growth after self-harm; aspects of mental health care; school; and



needs related to society in relation to taboo on suicidal behaviour. Male adolescents with suicidal behaviour were underrepresented as participants in most studies included in this review, so more research into their needs is required. The findings of this study imply that adolescents should be more involved in shaping peer-related suicide prevention. It is important to teach adolescents the right tools and self-help strategies to help them maintain a sense of self-control and independence. More work needs to be done around educating the public about self-harm and suicide prevention and fighting stigma and taboo throughout society. In addition, it is important that health care professionals listen openly and without judgment, that there are multiple routes for getting mental health care, and that online help is available. Also, further research should focus on additional high-risk groups for suicidal behaviour, e.g., non-western adolescents (immigrant and refugee youth), LGBTQ+adolescents, and foster youth but could also focus on a broader group of adolescents, such as those with mental health issues (and without suicidal behaviour). The results of this scoping review may provide leads to develop or strengthen suicide-related prevention taking into account the self-perceived needs of adolescents with suicidal behaviour.

Supplementary Information The online version contains supplementary material available at https://doi.org/10.1007/s00787-023-02342-1.

Acknowledgements The authors would like to thank information specialist Caroline Planting of Amsterdam Medical Center.

Author contributions Conceptualization of this study was performed by all authors. Titles and abstracts of all articles were independently screened by M.L. and N.v.E. Disagreements during screening were resolved by discussion with D.v.B. The data extraction was performed by M.L. and N.v.E. M.L. and N.v.E. recorded the methodological quality of each study and D.v.B. independently checked a subsample. M.L. and N.v.E. synthesized the results, in discussion with all other authors. M.L. wrote the main manuscript text, D.v.B. supervised, and all authors reviewed the manuscript.

Data availability The authors declare that the data supporting the findings of this study are available within the paper and its supplementary information files. Should any raw or other data files be needed they are available from the corresponding author upon reasonable request.

Declarations

Conflict of interest The authors report there are no competing interests to declare.

Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not

permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/.

References

- Miller AB, Prinstein MJ (2019) Adolescent suicide as a failure of acute stress-response systems. Annu Rev Clin Psychol 15:425. https://doi.org/10.1146/annurev-clinpsy-050718-095625
- Bould H, Mars B, Moran P, Biddle L, Gunnell D (2019) Rising suicide rates among adolescents in England and Wales. The Lancet 394(10193):116–117. https://doi.org/10.1016/s0140-6736(19) 31102-x
- Varin M, Orpana HM, Palladino E, Pollock NJ, Baker MM (2021) Trends in suicide mortality in Canada by sex and age group, 1981 to 2017: a population-based time series analysis. Can J Psychiatry 66(2):170–178. https://doi.org/10.1177/0706743720940565
- Stefanac N, Hetrick S, Hulbert C, Spittal MJ, Witt K, Robinson J (2019) Are young female suicides increasing? A comparison of sex-specific rates and characteristics of youth suicides in Australia over 2004–2014. BMC Public Health 19(1):1–11. https://doi.org/ 10.1186/s12889-019-7742-9
- Miron O, Yu KH, Wilf-Miron R, Kohane IS (2019) Suicide rates among adolescents and young adults in the United States, 2000– 2017. JAMA 321(23):2362–2364. https://doi.org/10.1001/jama. 2019.5054
- Ruch DA, Sheftall AH, Schlagbaum P, Rausch J, Campo JV, Bridge JA (2019) Trends in suicide among youth aged 10 to 19 years in the United States, 1975 to 2016. JAMA Netw Open 2(5):e193886. https://doi.org/10.1001/jamanetworkopen.2019. 3886
- World Health Organization (2019) https://www.who.int/data/gho/ data/themes/mental-health/suicide-rates. Accessed 24 Nov 2022
- De Leo D, Goodfellow B, Silverman M, Berman A, Mann J, Arensman E et al (2021) International study of definitions of English-language terms for suicidal behaviours: a survey exploring preferred terminology. BMJ 11(2):e043409. https://doi.org/ 10.1136/bmjopen-2020-043409
- Hawton K, James A (2005) Suicide and deliberate self harm in young people. BMJ 330(7496):891–894. https://doi.org/10.1136/ bmj.330.7496.891
- Cha CB, Franz PJM, Guzmán E, Glenn CR, Kleiman EM, Nock MK (2018) Annual research review: suicide among youth – epidemiology, (potential) etiology, and treatment. J Child Psychol Psychiatry 59(4):460–482. https://doi.org/10.1111/jcpp.12831
- Ribeiro JD, Franklin JC, Fox KR, Bentley KH, Kleiman EM, Chang BP et al (2016) Self-injurious thoughts and behaviors as risk factors for future suicide ideation, attempts, and death: a meta-analysis of longitudinal studies. Psychol Med 46(2):225– 236. https://doi.org/10.1017/s0033291715001804
- Nock MK (2014) The Oxford handbook of suicide and self-injury. Oxford University Press, Oxford. https://doi.org/10.1093/oxfor dhb/9780195388565.001.0001
- Wichstrøm L (2009) Predictors of non-suicidal self-injury versus attempted suicide: similar or different? Arch Suicide Res 13(2):105–122. https://doi.org/10.1080/13811110902834992
- Tang J, Yu Y, Wu Y, Du Y, Ma Y, Zhu H et al (2011) Association between non-suicidal self-injuries and suicide attempts in Chinese adolescents and college students: a cross-section study. PLoS ONE 6(4):e17977. https://doi.org/10.1371/journal.pone.0017977
- Joiner TE, Steer RA, Brown G, Beck AT, Pettit JW, Rudd MD (2003) Worst-point suicidal plans: a dimension of suicidality predictive of past suicide attempts and eventual death by suicide.



- Behav Res Ther 41(12):1469–1480. https://doi.org/10.1016/s0005-7967(03)00070-6
- Nock MK, Borges G, Bromet EJ, Alonso J, Angermeyer M, Beautrais A et al (2008) Cross-national prevalence and risk factors for suicidal ideation, plans and attempts. Br J Psychiatry 192(2):98–105. https://doi.org/10.1192/bjp.bp.107.040113
- Rufino NC, Fidalgo TM, dos Santos JP, Tardelli VS, Lima MG, Frick LP et al (2021) Treatment compliance and risk and protective factors for suicide ideation to completed suicide in adolescents: a systematic review. Braz J Psychiatry 43(5):550–558. https://doi.org/10.1590/1516-4446-2020-1026
- Witt KG, Hetrick SE, Rajaram G, Hazell P, Taylor Salisbury TL, Townsend E et al (2021) Interventions for self-harm in children and adolescents. Cochrane Database Syst Rev 3(3):CD013667. https://doi.org/10.1002/14651858.cd013667.pub2
- Ougrin D, Tranah T, Stahl D, Moran P, Asarnow JR (2015) Therapeutic interventions for suicide attempts and self-harm in adolescents: systematic review and meta-analysis. J Am Acad Child Adolesc Psychiatry 54(2):97-107.e2. https://doi.org/10.1016/j.jaac.2014.10.009
- Coggan C, Patterson P, Fill J (1997) Suicide: qualitative data from focus group interviews with youth. Soc Sci Med 45(10):1563– 1570. https://doi.org/10.1016/s0277-9536(97)00098-1
- Fortune S, Sinclair J, Hawton K (2008) Adolescents' views on preventing self-harm. A large community study. Soc Psychiatry Psychiatr Epidemiol 43(2):96–104. https://doi.org/10.1007/ s00127-007-0273-1
- Nada-Raja S, Morrison D, Skegg K (2003) A population-based study of help-seeking for self-harm in young adults. Aust N Z J Psychiatry 37(5):600–605. https://doi.org/10.1046/j.1440-1614. 2003.01252.x
- 23. Hetrick SE, Subasinghe A, Anglin K, Hart L, Morgan A, Robinson J (2020) Understanding the needs of young people who engage in self-harm: a qualitative investigation. Front Psychol 10:2916. https://doi.org/10.3389/fpsyg.2019.02916
- Jordan J, McKenna H, Keeney S, Cutcliffe J, Stevenson C, Slater P et al (2021) Providing meaningful care: learning from the experiences of suicidal young men. Qual Health Res 22(9):1207–1219. https://doi.org/10.1177/1049732312450367
- Grimmond J, Kornhaber R, Visentin D, Cleary M (2019) A qualitative systematic review of experiences and perceptions of youth suicide. PLoS ONE 14(6):e0217568. https://doi.org/10.1371/journ al.pone.0217568
- O'Brien KHMM, Nicolopoulos A, Almeida J, Aguinaldo LD, Rosen RK (2021) Why adolescents attempt suicide: a qualitative study of the transition from ideation to action. Arch Suicide Res 25:269–286. https://doi.org/10.1080/13811118.2019.1675561
- 27. Tricco AC, Lillie E, Zarin W, O'Brien KK, Colquhoun H, Levac D et al (2018) PRISMA extension for scoping reviews (PRISMA-ScR): checklist and explanation. Ann Intern Med 169(7):467–473. https://doi.org/10.7326/m18-0850
- Sawyer SM, Azzopardi PS, Wickremarathne D, Patton GC (2018)
 The age of adolescence. Lancet Child Adolesc Health 2(3):223–228. https://doi.org/10.1016/s2352-4642(18)30022-1
- Ouzzani M, Hammady H, Fedorowicz Z, Elmagarmid A (2016) Rayyan-a web and mobile app for systematic reviews. Syst Rev 5(1):210. https://doi.org/10.1186/s13643-016-0384-4
- Critical Appraisal Skills Programme (2019) https://casp-uk.net/ casp-tools-checklists/. Accessed 17 Feb 2022
- Hassett A, Isbister C (2017) Young men's experiences of accessing and receiving help from child and adolescent mental health services following self-harm. SAGE Open 7(4):2158244017745112. https://doi.org/10.1177/2158244017745112
- 32. Holland J, Sayal K, Berry A, Sawyer C, Majumder P, Vostanis P et al (2020) What do young people who self-harm find helpful? A comparative study of young people with and without

- experience of being looked after in care. Child Adolesc Ment Health 25(3):157–164. https://doi.org/10.1111/camh.12384
- 33. Mcandrew S, Warne T (2014) Hearing the voices of young people who self-harm: implications for service providers. Int J Ment Health Nurs 23(6):570–579. https://doi.org/10.1111/inm.12093
- Rouski C, Knowles SF, Sellwood W, Hodge S (2020) The quest for genuine care: a qualitative study of the experiences of young people who self-harm in residential care. Clin Child Psychol Psychiatry 26(2):418–429. https://doi.org/10.1177/1359104520 980037
- 35. Wadman R, Armstrong M, Clarke D, Harroe C, Majumder P, Sayal K et al (2017) Experience of self-harm and its treatment in looked-after young people: an interpretative phenomenological analysis. Arch Suicide Res 22(3):365–379. https://doi.org/10.1080/13811118.2017.1355286
- Miller M, Redley M, Wilkinson PO (2021) A qualitative study of understanding reasons for self-harm in adolescent girls. Int J Environ Res Public Health 18(7):3361. https://doi.org/10.3390/ ijerph18073361
- 37. Griffiths R, Page L, McDougall T, Devlin P, Midgley S, Baker J (2023) Staff responses to self-harm by children and young people in mental health inpatient settings: Experiences and views of children and young people, parents and staff. Int J Ment Health Nurs 32(4):1–12. https://doi.org/10.1111/inm.13143
- Tillman KS, Prazak M, Obert ML (2017) Understanding the experiences of middle school girls who have received help for non-suicidal self-injury. Clin Child Psychol Psychiatry 23(4):514–527. https://doi.org/10.1177/1359104517743784
- Vélez-Grau C (2019) Using photovoice to examine adolescents' experiences receiving mental health services in the United States. Health Promot Int 34(5):912–920. https://doi.org/10.1093/heapro/ day043
- Marraccini ME, Pittleman C (2022) Returning to school following hospitalization for suicide-related behaviors: recognizing student voices for improving practice. School Psych 51(3):370–385. https://doi.org/10.1080/2372966x.2020.1862628
- Kruzan KP, Mohr DC, Reddy M (2022) How technologies can support self-injury self-management: perspectives of young adults with lived experience of nonsuicidal self-injury. Front Digit Health 4:913599. https://doi.org/10.3389/fdgth.2022.913599
- Bostik KE, Everall RD (2007) Healing from suicide: adolescent perceptions of attachment relationships. Br J Guid Couns 35(1):79–96. https://doi.org/10.1080/03069880601106815
- Bergmans Y, Langley J, Links P, Lavery J, Sommer A, Chair R (2009) The Perspectives of young adults on recovery from repeated suicide-related behavior. Crisis 30(3):120–127. https:// doi.org/10.1027/0227-5910.30.3.120
- Gros CP, Jarvis S, Mulvogue T, Wright D (2012) Adolescents at suicide risk: nursing care they consider helpful. Sante Ment 37(2):193–207. https://doi.org/10.7202/1014951ar
- Rissanen ML, Kylmä J, Eila Laukkanen E (2009) Descriptions of help by Finnish adolescents who self-mutilate. J Child Adolesc Psychiatr Nurs 22(1):7–15. https://doi.org/10.1111/j.1744-6171. 2008.00164.x
- Miettinen TM, Kaunonen M, Kylmä J, Rissanen ML, Aho AL (2021) Experiences of help from the perspective of Finnish people who self-harmed during adolescence. Issues Ment Health Nurs 42(10):917–928. https://doi.org/10.1080/01612840.2021.19044
- Bolger S, O'Connor P, Malone K, Fitzpatrick C (2004) Adolescents with suicidal behaviour: attendance at A&E and six month follow-up. Irish J Psychol Med 21(3):78–84. https://doi.org/10.1017/s0790966700008405
- 48. Doyle L (2017) Attitudes toward adolescent self-harm and its prevention: the views of those who self-harm and their peers. J Child



- Adolesc Psychiatr Nurs 30(3):142–148. https://doi.org/10.1111/jcap.12186
- Idenfors H, Kullgren G, Renberg ES (2015) Professional care as an option prior to self-harm. Crisis 36(3):179–186. https://doi.org/ 10.1027/0227-5910/a000310
- Hansson K, Malmkvist L, Johansson B (2020) A 15-year followup of former self-harming inpatients in child & adolescent psychiatry – a qualitative study. Nord J Psychiatry 74(4):273–279. https://doi.org/10.1080/08039488.2019.1697747
- 51. Naz A, Naureen A, Kiran T, Husain O, Minhas A, Razzaque B et al (2021) Exploring lived experiences of adolescents presenting with self-harm and their views about suicide prevention strategies: a qualitative approach. Int J Environ Res Public Health 18(9):4694. https://doi.org/10.3390/ijerph18094694
- Frost M, Casey L, Rando N (2016) Self-injury, help-seeking, and the Internet: informing online service provision for young people. Crisis 37(1):68–76. https://doi.org/10.1027/0227-5910/ a000346
- Aspaslan AH (2003) Reflections on the experiences and needs of adolescents who have attempted suicide: a qualitative study. Soc Work 39(3):251–269
- Kaijadoe SPT, Klip H, de Weerd A, van Arragon EA, Nijhof KS, Popma A et al (2023) How do group workers respond to suicidal behavior? Experiences and perceptions of suicidal female adolescents residing in secure residential youth care in the Netherlands. PLoS ONE 18(3):e0283744. https://doi.org/10.1371/journal.pone. 0283744
- Carla De Oliveira A, Ribeiro P, Franco R, Leite D, Valéria V, Couto D (2022) Self-injury in adolescent students in a public school. REFACS 10(1):135–144. https://doi.org/10.18554/refacs. v10i0.5000
- Simões RMP, dos Santos JCP, Martinho MJCM (2021) Adolescents with suicidal behaviours: a qualitative study about the assessment of Inpatient Service and Transition to Community.
 J Psychiatr Ment Health Nurs 28(4):622–631. https://doi.org/10.1111/jpm.12707
- Kelada L, Hasking P, Melvin G, Whitlock J, Baetens I (2018) "I Do Want to Stop, At Least I Think I Do": an international comparison of recovery from nonsuicidal self-injury among young people. J Adolesc Res 33(4):416–441. https://doi.org/10.1177/ 0743558416684954
- Kleiman EM, Riskind JH, Schaefer KE (2014) Social support and positive events as suicide resiliency factors: examination of synergistic buffering effects. Arch Suicide Res 18(2):144–155. https://doi.org/10.1080/13811118.2013.826155
- Yaqoob N, Ahsan S (2021) Impact of perceived social support and parental bonding in predicting suicidal intent among self-harm patients. J Pak Med Assoc 71(4):1148–1151. https://doi.org/10. 47391/jpma.1299
- McClay MM, Brausch AM, O'Connor SS (2020) Social support mediates the association between disclosure of suicide attempt and depression, perceived burdensomeness, and thwarted belongingness. Suicide Life Threat Behav 50(4):884–898. https://doi.org/ 10.1111/sltb.12622
- 61. Marchant A, Hawton K, Stewart A, Montgomery P, Singaravelu V, Lloyd K et al (2017) A systematic review of the relationship between internet use, self-harm and suicidal behaviour in young people: the good, the bad and the unknown. PLoS ONE 12(8):e0193937. https://doi.org/10.1371/journal.pone.0181722
- Niezen R (2013) Internet suicide: communities of affirmation and the lethality of communication. Transcult Psychiatry 50(2):303– 322. https://doi.org/10.1177/1363461512473733
- 63. Mokkenstorm JK, Mérelle SYM, Smit JH, Beekman ATF, Kerkhof AJFM, Huisman A et al (2019) Exploration of benefits and potential harmful effects of an online forum for visitors to the

- suicide prevention platform in The Netherlands. Crisis 41(3):205–213. https://doi.org/10.1027/0227-5910/a000627
- 64. Susi K, Glover-Ford F, Stewart A, Knowles Bevis R, Hawton K (2023) Research review: viewing self-harm images on the internet and social media platforms: systematic review of the impact and associated psychological mechanisms. J Child Psychol Psychiatry 64(8). https://doi.org/10.1111/jcpp.13754
- Self-harm: assessment, management and preventing recurrence NICE guideline (2022) www.nice.org.uk/guidance/ng225.
 Accessed 31 Jan 2023
- Walsh EH, Herring MP, McMahon J (2023) A systematic review of school-based suicide prevention interventions for adolescents, and intervention and contextual factors in prevention. Prev Sci 24(2):365. https://doi.org/10.1007/s11121-022-01449-2
- 67. Walsh EH, McMahon J, Herring MP (2023) Research review: the effect of school-based suicide prevention on suicidal ideation and suicide attempts and the role of intervention and contextual factors among adolescents: a meta-analysis and meta-regression. J Child Psychol Psychiatry 63(8):836–845. https://doi.org/10.1111/jcpp. 13598
- 68. Torok M, Calear A, Shand F, Christensen H (2017) A systematic review of mass media campaigns for suicide prevention: understanding their efficacy and the mechanisms needed for successful behavioral and literacy change. Suicide Life Threat Behav 47(6):672–687. https://doi.org/10.1111/sltb.12324
- Zalsman G, Hawton K, Wasserman D, van Heeringen K, Arensman E, Sarchiapone M et al (2017) Suicide prevention strategies revisited: 10-year systematic review. Lancet 3(7):646–659. https://doi.org/10.1016/s2215-0366(16)30030-x
- Pirkis J, Rossetto A, Nicholas A, Ftanou M, Robinson J, Reavley N (2017) Suicide prevention media campaigns: a systematic literature review. Health Commun 34(4):402–414. https://doi.org/ 10.1080/10410236.2017.1405484
- Kohls E, Coppens E, Hug J, Wittevrongel E, Van Audenhove C, Koburger N et al (2017) Public attitudes toward depression and help-seeking: impact of the OSPI-Europe depression awareness campaign in four European regions. J Affect Disord 217:252–259. https://doi.org/10.1016/j.jad.2017.04.006
- van der Burgt MCA, Beekman ATF, Hoogendoorn AW, Berkelmans G, Franx G, Gilissen R (2021) The impact of a suicide prevention awareness campaign on stigma, taboo and attitudes towards professional help-seeking. J Affect Disord 279:730–736. https://doi.org/10.1016/j.jad.2020.11.024
- Hawton K, Saunders KEA, O'Connor RC (2012) Self-harm and suicide in adolescents. The Lancet 379(9834):2373–2382. https:// doi.org/10.1016/s0140-6736(12)60322-5
- Polit DF, Beck CT (2013) Is there still gender bias in nursing research? An update. Res Nurs Health 36(1):75–83. https://doi. org/10.1002/nur.21514
- Affleck W, Glass K, Macdonald ME (2013) The limitations of language: male participants, stoicism, and the qualitative research interview. Am J Mens Health 7(2):155–162. https://doi.org/10. 1177/1557988312464038
- Lindgren BM, Wilstrand C, Gilje F, Olofsson B (2004) Struggling for hopefulness: a qualitative study of Swedish women who selfharm. J Psychiatr Ment Health Nurs 11(3):284–291. https://doi. org/10.1111/j.1365-2850.2004.00712.x
- Tran KK, Wong YJ, Cokley KO, Brownson C, Drum D, Awad G et al (2015) Suicidal Asian American College students' perceptions of protective factors: a qualitative study. Death Stud 39(8):500–507. https://doi.org/10.1080/07481187.2014.970299
- de Lange J, van Bergen DD, Baams L, Timmerman MC, Bos HMW (2021) Experiences and needs of sexual and gender minority young adults with a history of suicidal ideation regarding formal and informal mental healthcare. Sex Res Soc Policy 19:1829–1841. https://doi.org/10.1007/s13178-021-00657-9



- 79. Meheli S, Bhola P, Murugappan NP (2021) From self-injury to recovery: a qualitative exploration with self-injuring youth in India. J Psychosoc Rehabil Ment Health 8(2):147–158. https://doi.org/10.1007/s40737-021-00214-y
- 80. Cliffe B, Stallard P (2022) University students' experiences and perceptions of interventions for self-harm. J Youth Stud 26(5):637–651. https://doi.org/10.1080/13676261.2022.2033187

