

Self-harm: assessment, management and preventing recurrence

[F] Evidence review for assessment in specialist settings

NICE guideline number tbc

Evidence reviews underpinning recommendations 1.1.4 and 1.5.1 – 1.5.17 in the NICE guideline

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These evidence reviews were developed by the National Guideline Alliance which is a part of the Royal College of Obstetricians and Gynaecologists

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1 **Assessment in specialist settings**

2 **Review question**

3 How should assessment for people who have self-harmed be undertaken in specialist
4 settings, such as: community mental health services, emergency departments (by specialist
5 staff), inpatient mental health services?

6 **Introduction**

7
8 People who have self-harmed frequently present to Emergency Departments (EDs) for
9 mental and physical health assessment. People who are under the care of Community
10 Mental Health Services and who are inpatients in psychiatric wards represent a population at
11 high risk of self-harm. Assessment is a key factor in establishing a positive therapeutic
12 relationship with health services and in ensuring that people receive the treatment that they
13 need, both for their physical and mental health. The aim of this review is to identify how
14 assessment should be undertaken in specialist settings.

15 **Summary of the protocol**

16
17 See Table 1 for a summary of the Population, Intervention, Comparison and Outcome
18 (PICO) characteristics of this review.

1 **Table 1: Summary of the protocol (PICO table)**

Population	<p>Inclusion: All people who have self-harmed, including those with a mental health problem, neurodevelopmental disorder or a learning disability, who have presented to a specialist mental health services.</p> <p>Exclusion:</p> <ul style="list-style-type: none">• People displaying repetitive stereotypical self-injurious behaviour, for example head-banging in people with a significant learning disability• People who have self-harmed who have presented to non-specialist settings
Intervention	<p>Model of assessment A, for example,</p> <ul style="list-style-type: none">• assessment including principles of active listening,• therapeutic assessment,• comprehensive biopsychosocial assessment,• assessment performed by different professions [such as psychiatric nurses],• culturally sensitive assessment

Comparator	Model of assessment B, for example, <ul style="list-style-type: none">• assessment not including principles of active listening,• triage assessment,• assessment performed by different professions [such as doctors],• uniform assessment (that is, not taking culture into account)
Outcome	Critical <ul style="list-style-type: none">• Self-harm repetition (for example, self-poisoning or self-cutting)• Service user satisfaction (dignity, compassion and respect)• Suicide Important <ul style="list-style-type: none">• Quality of life• Initiation of safeguarding procedures• Distress• Engagement with after-care

1 For further details, see the review protocol in appendix A.

2 **Methods and process**

3 A modified version of the GRADE approach to rate the certainty of evidence in systematic
4 reviews was used as part of a pilot project undertaken by NICE. Instead of using predefined
5 clinical decision/minimal important difference (MID) thresholds to assess imprecision in
6 GRADE tables, imprecision was assessed qualitatively during committee discussions. Other
7 than this modification, GRADE was used to assess the quality of evidence for the selected
8 outcomes and this evidence review developed using the methods and process described in
9 [Developing NICE guidelines: the manual](#). Methods specific to this review question are
10 described in the review protocol in appendix A and the methods document (supplementary
11 document 1).

12
13 Declarations of interest were recorded according to [NICE's conflicts of interest policy](#).

14 **Effectiveness evidence**

15 **Included studies**

16
17 Three studies reported in 4 publications were included in this review. Two of these were
18 randomised controlled trials (RCTs: Johnson 2018, Ougrin 2011, Ougrin 2013). Two of these
19 publications reported results from the same study (Ougrin 2011, Ougrin 2013). One study
20 was a non-randomised prospective cohort study (Pitman 2020).

21 These included studies are summarised in Table 2.

22 Two studies were conducted in a UK setting (Ougrin 2011, Ougrin 2013, Pitman 2020), and 1
23 was from the USA (Johnson 2018).

1 Two studies included individuals presenting with an episode of self-harm (Ougrin 2011,
2 Ougrin 2013, Pitman 2020): 1 focused on adolescents aged 12–18 years who were not
3 engaged with psychiatric services and who had self-harmed and been referred for a
4 psychosocial assessment (Ougrin 2011, Ougrin 2013), and the other study analysed
5 presentations of self-harm to hospital (Pitman 2020). The third study included veterans
6 recruited from an inpatient psychiatry unit following a recent suicide attempt or for whom
7 suicidal ideation was a presenting problem (Johnson 2018).

8 The 2 RCTs compared different types of assessment. Ougrin (2011/ 2013) compared
9 therapeutic assessment with assessment as usual, while Johnson 2018 compared ‘usual
10 assessment group therapy’ with ‘suicide status form assessment group therapy’. The cohort
11 study (Pitman 2020) compared assessment by a psychiatrist with assessment by a
12 psychiatric nurse.

13 See the literature search strategy in appendix B and study selection flow chart in appendix C.

14 Excluded studies

15 Studies not included in this review are listed, and reasons for their exclusion are provided, in
16 appendix J.

17 Summary of included studies

18 Summaries of the studies that were included in this review are presented in Table 2.

19 **Table 2: Summary of included studies**

Study	Population	Intervention	Comparison	Outcomes
Johnson 2018 Randomised controlled trial USA	N=134 veterans recruited from an inpatient psychiatry unit following a recent suicide attempt or for whom suicidal ideation was a presenting problem	Suicide status form assessment group therapy (SSF-AGT) <ul style="list-style-type: none"> • n=65 Co-led by 2 therapists (licensed clinical psychologist and a licensed clinical social worker)*, and comprised up to 12 participants; • group co-leader worked with the individual to complete sections A and B of the SSF initial session form (concerned with overall risk assessment). • Individual completion of Section A of the SSF tracking form, which asked patients to: (1) rate their current levels of psychological pain, stress, agitation, hopelessness, self-hate, and overall risk of suicide using a 1–5 	Usual assessment group therapy (UAGT) <ul style="list-style-type: none"> • n=69 • Co-led by 2 therapists (licensed clinical psychologist and a licensed clinical social worker)*, and comprised up to 12 participants. • co-leaders applied informal risk assessment techniques, specifically, asking each group member at the outset of group, “How have you been doing in the past week with suicidal thoughts, plans, intent,” and so on 	Critical <ul style="list-style-type: none"> • Satisfaction (3 months after assessment) Important <ul style="list-style-type: none"> • Overall symptom distress (1 and 3 months after assessment) • Number of sessions of follow-up attended (1 and 3 months after assessment)

Study	Population	Intervention	Comparison	Outcomes
		<p>rating scale; and (2) report the presence of suicidal thoughts, ability to manage suicidal urges, and suicide behaviours since the last session.</p> <ul style="list-style-type: none"> • Each group member then reported on their scores and replies to the questions on the form. • Group discussion. • Groups were held weekly up to 12 sessions. • Upon discharge from inpatient treatment, each participant was scheduled into the next session of his/her treatment group <p>* The same therapists led both groups</p>	<ul style="list-style-type: none"> • Group discussion would then follow from whatever was identified in the check-in. • Groups were held weekly up to 12 sessions. • Upon discharge from inpatient treatment, each participant was scheduled into the next session of his/her treatment group. 	
<p>Ougrin 2013; Ougrin 2011</p> <p>Randomised controlled trial</p> <p>UK</p>	<p>N=70 adolescents aged 12-18 years who were not engaged with psychiatric services and who had self-harmed and been referred for a psychosocial assessment.</p> <ul style="list-style-type: none"> • 	<p>Therapeutic assessment:</p> <ul style="list-style-type: none"> • n=35 • standard psychosocial history and risk assessment (1 hour); • joint construction of diagram consisting of reciprocal roles, core pain and maladaptive procedures; • identification of target problem; • considering and enhancing motivation for change; • exploring potential 'exits' (ways of breaking the vicious cycles identified); • describing the diagram and exits in an understanding letter to the family alongside usual assessment letter 	<p>Assessment as usual:</p> <ul style="list-style-type: none"> • n=35 • standard psychosocial history and risk assessment per NICE Guidelines • assessment letter to community team and copy to family 	<p>Critical</p> <ul style="list-style-type: none"> • Presentation to A&E with self-harm (24 months after assessment) • Repeat self-harm (24 months after assessment) <p>Important</p> <ul style="list-style-type: none"> • Attendance of treatment sessions in CAMHS (1, 3, 12, and 24 months after assessment)
<p>Pitman 2020</p> <p>Prospective</p>	<p>N=9644 individuals presenting to</p>	<p>Psychosocial assessment by psychiatrist:</p>	<p>Psychosocial assessment by psychiatric nurse:</p>	<p>Critical</p> <ul style="list-style-type: none"> • Repeat hospital

Study	Population	Intervention	Comparison	Outcomes
non-randomised cohort	hospital following self-harm	• n=4159	• n=5485	presentation for self-harm within 12 months
UK	•			Important • None

1 A&E: accident and emergency; CAMHS: Community and Mental Health Services; SD: standard deviation; SSF-
 2 AGT: Suicide status form assessment group therapy; UAGT: usual assessment group therapy; vs: versus

3 See the full evidence tables in appendix D.

4 **Summary of the evidence**

5 One study (Ougrin 2011/ 2013) compared therapeutic assessment with assessment as usual
 6 in adolescents who had self-harmed. No significant differences in ED presentations with self-
 7 harm or total number of episodes of self-harm were identified between the groups at 24
 8 months (low-to-moderate quality). The outcome ‘engagement with follow-up’ was reported at
 9 1, 3, 12, and 24 months. Attendance at first follow-up (1 month) was significantly higher in
 10 the therapeutic assessment group compared with the assessment as usual group (moderate
 11 quality). Participants in the therapeutic assessment group were more likely to attend ≥4
 12 sessions of routine community treatment in the 3 months after assessment than individuals in
 13 the assessment as usual group (moderate quality). Over the longer term (at 12 and 24
 14 months) engagement with treatment remained higher in the therapeutic assessment group
 15 compared with assessment as usual (low quality).

16 One study (Johnson 2018) compared ‘suicide status form assessment group therapy with
 17 ‘usual assessment group therapy’ in veterans discharged from an inpatient psychiatry
 18 setting. The study reported the outcomes of satisfaction, distress and engagement with
 19 follow-up. No significant differences in satisfaction were identified between groups at 3
 20 months (very low quality). No significant differences between groups in overall symptom
 21 distress were observed at 1 month, or 3 months following assessment (very low quality). No
 22 significant differences between groups were observed in attendance of follow-up at 1 month
 23 or 3 months following assessment (very low quality).

24 One study (Pitman 2020) compared assessment of individuals presenting with self-harm in
 25 ED by psychiatrists and psychiatric nurses. The study reported the outcome of self-harm
 26 repetition. No significant difference in repeat self-harm was identified between individuals
 27 assessed by a psychiatrist compared with those assessed by a psychiatric nurse (low
 28 quality). Results from unadjusted and adjusted statistical models (model 1 adjusted for: age
 29 at presentation, method of self-harm, hour of presentation, and year of presentation; model 2
 30 adjusted for: age at presentation, method of self-harm, hour of presentation, year of
 31 presentation; and aftercare) were consistent (low quality).

32 None of the included studies reported the following outcomes: suicide, quality of life or
 33 initiation of safeguarding procedures.

34 See appendix F for full GRADE tables.

1 **Economic evidence**

2 **Included studies**

3 A single economic search was undertaken for all topics included in the scope of this
4 guideline but no economic studies were identified which were applicable to this review
5 question. See the literature search strategy in appendix B and economic study selection flow
6 chart in appendix G.

7 **Excluded studies**

8 Economic studies not included in the guideline economic literature review are listed, and
9 reasons for their exclusion are provided in appendix J.

10 **Economic model**

11 No economic modelling was undertaken for this review because the committee agreed that
12 other topics were higher priorities for economic evaluation.

13 **Evidence statements**

14 **Economic**

15 No economic studies were identified which were applicable to this review question.

16 **The committee's discussion and interpretation of the evidence**

17 **The outcomes that matter most**

18 Self-harm repetition, suicide and service user satisfaction were prioritised as critical
19 outcomes by the committee. Self-harm repetition and suicide were prioritised as critical
20 outcomes because they are direct measures of any differential effectiveness associated with
21 the types of assessment and capture both fatal and non-fatal self-harm. Service user
22 satisfaction was chosen as a critical outcome due to the importance of delivering services
23 which are empowering and centred around the patient's experiences, and because patient
24 satisfaction is likely to influence whether the patient engages with the intervention.

25 Initiating safeguarding procedures, distress, engagement with after-care, and quality of life
26 were considered important outcomes by the committee. Engagement with after-care was
27 chosen as an important outcome because repetition of self-harm is common after initial
28 assessment and the assessment may therefore have indicated a need for further care.
29 However, if the type of assessment influences the likelihood of whether a person who has
30 self-harmed both has access to and attends follow-up sessions, then this will influence
31 whether after-care will be effective. Quality of life was chosen as an important outcome as it
32 is a multidimensional concept encompassing health-related outcomes beyond those of
33 repeat self-harm or survival. Distress was chosen as an important outcome as, given that
34 self-harm is an expression of personal distress, different assessment types may affect an
35 individual distress levels in different ways. The committee agreed that patients not
36 infrequently experience the care that is offered after an episode of self-harm as increasing
37 rather than reducing their distress, and that this may deter patients from seeking care in
38 future. Initiation of safeguarding procedures following assessment was considered an
39 important outcome because domestic violence, childhood abuse and maltreatment, and
40 other forms of abuse and exploitation increase the risk of self-harm, and self-harm may be

1 the first indicator of the abuse. Repetition of self-harm is common after initial assessment.
2 Assessment may identify high-risk individuals for whom the initiation of safeguarding
3 procedures may be necessary and may reduce the risk of repetition.

4 **The quality of the evidence**

5 When assessed using GRADE methodology the evidence was found to range in quality from
6 very low to moderate quality. In all cases, the evidence was downgraded due to risk of bias
7 as per Cochrane RoB 2.0 or ROBINS-I (for example, due to missing data or lack of blinding),
8 and in one case it was also downgraded due to indirectness as the study was conducted in a
9 non-UK setting.

10 There was no evidence identified for a number of interventions and comparisons, including:
11 assessments including principles of active listening; comprehensive biopsychosocial
12 assessment; culturally sensitive assessment. Additionally, no evidence was identified for the
13 following outcomes: suicide; quality of life; initiation of safeguarding procedures.

14 **Imprecision and clinical importance of effects**

15 The committee discussed the evidence and agreed that, as the quality of the majority of the
16 evidence was either low or very low and found no important difference in a number of
17 outcomes, most of the evidence presented did not allow them to make strong
18 recommendations on the overall benefit or potential harm of specific models of assessment
19 in specialist settings. The committee also qualitatively discussed imprecision for each of the
20 interventions and agreed that none of the treatment effects were likely to be clinically
21 meaningful.

22 One study (Johnson 2018) compared therapeutic group assessment using the Suicide Status
23 Form against therapeutic group assessment using informal questions, however this study
24 was of limited applicability as the population was veterans recently discharged from an
25 inpatient psychiatry setting and the study was conducted in a non-UK setting. Due to the lack
26 of applicability of the study and the very low quality of the evidence, the committee did not
27 feel confident recommending use of the Suicide Assessment Form. One study (Pitman 2020)
28 looked at whether who conducted the assessment affected outcomes, comparing
29 assessment completed by a psychiatrist against assessment completed by a psychiatric
30 nurse. The quality of this evidence was low and the study found no overall differences in
31 repeat self-harm between groups, so the committee did not feel confident making
32 recommendations relating to which professionals should carry out assessment for people
33 who have self-harmed. Overall only 1 study (Ougrin 2011/ 2013) reported findings of
34 moderate quality, and this study found no important difference in A&E presentations with
35 self-harm between Therapeutic Assessment for young people and assessment as usual, but
36 an important benefit in attendance of treatment sessions in CAMHS at 1 and 3 months'
37 follow-up. This study also found no important difference in total recorded self-harm episodes
38 and an important benefit in attendance of treatment sessions in CAMHS at 12 and 24
39 months' follow-up, however the committee agreed during their qualitative discussion of
40 imprecision that there was serious imprecision in the evidence regarding these outcomes,
41 due to uncertainty around the estimates. Overall, the committee agreed that the estimated
42 benefit in engagement with services in the short term for participants who received
43 Therapeutic Assessment was worth taking into consideration when drafting the
44 recommendations. The committee therefore used the moderate quality evidence from Ougrin
45 2011/ 2013 and their own knowledge and experience to draft the recommendations, taking
46 into account existing concerns in current practice.

1 The committee agreed not to prioritise this area for research recommendations despite the
2 poor quality of the evidence as other areas of the guideline were deemed more necessary to
3 prioritise.

4 **Benefits and harms**

5 In advance of the discussion of recommendations, the committee agreed that there was
6 never a scenario in which a psychosocial assessment should not be offered to the person
7 who had self-harmed. The committee discussed that there may be a belief that withholding
8 assessment or treatment for episodes of self-harm is therapeutic and will reduce the
9 frequency of self-harm: this belief is based on a mistaken understanding of behavioural
10 change theory and contingency management.

11 The committee made recommendations in part split according to setting specialty, and in part
12 split according to staff speciality. This was because both specialist and non-specialist staff
13 work in some settings, such as EDs, making it difficult to define these settings as either
14 specialist or non-specialist. The committee agreed that in these situations, staff with different
15 levels of responsibility would provide different assessments for people who have self-
16 harmed, regardless of setting type.

17 The committee agreed that it is a commonly accepted principle that a psychosocial
18 assessment must be offered to all people presenting for self-harm. The committee discussed
19 existing concerns around assessments that were conducted remotely, without contact with
20 the person who had self-harmed, for example by reviewing case notes or from discussions
21 between clinicians. The committee agreed that the person should always be involved in their
22 own assessment in order to avoid incorrect assumptions being made, or inaccuracies in case
23 notes being replicated, potentially leading to further harm. The committee discussed whether
24 assessments should always be held face-to-face but ultimately agreed that this may not
25 always be appropriate or possible, and that the key point to emphasise is therefore that an
26 assessment should always include direct communication with the person, whichever way is
27 most appropriate. The committee agreed that the assessment should have the aims of
28 understanding and engaging people who have self-harmed, with the goal of initiating a
29 therapeutic relationship. However, the committee felt that a psychosocial assessment should
30 also have other key aims. The committee agreed based on their expertise that assessments
31 should be undertaken with the aim of facilitating the person's access to care, ensuring that
32 they receive appropriate treatment and support, and in order to provide information to the
33 person who had self-harmed and their family/ carers. The evidence also showed that a
34 model of assessment that provided information to family members had a positive effect on
35 engagement with follow-up services. The committee felt that these recommendations would
36 reduce the chance of future self-harm, encourage help seeking and improve service user
37 satisfaction. The committee agreed that patient factors are often cited as a barrier to
38 engagement with care for people who self-harm, but clinician attitudes and systemic barriers
39 to access are equally important.

40 The committee agreed that assessments should not be delayed until after treatment for the
41 physical consequences of self-harm was complete, and that it was important to emphasise
42 the necessity of prioritising a psychosocial assessment. The committee agreed that the best
43 approach would usually be for psychosocial assessment to be carried out concurrently with
44 medical assessment, as this could lead to improved service user satisfaction and supports
45 the provision of appropriate mental and physical health care. In the emergency department,
46 this means that specialist mental health professionals should arrive promptly and should
47 work alongside physical health colleagues during the initial assessment and treatment
48 process.

1 The committee agreed, based on their knowledge and experience that a psychosocial
2 assessment is essential after an episode of self-harm, and that delaying an assessment for
3 someone who had self-harmed for any reason was a cause for concern, as this could result
4 in inappropriate treatment being given at all later stages in the person's care. The committee
5 discussed their concerns regarding the potential for staff to use intoxication as an excuse not
6 to give a psychosocial assessment, and agreed that there are scenarios where a mildly
7 intoxicated person may still be capable of providing accurate answers to assessment.
8 However, they also discussed the fact that it may be unethical to do an assessment if the
9 person is severely intoxicated, as they might be more likely to provide inaccurate or incorrect
10 answers, or say something they may later regret. As a result, the committee agreed that
11 specialist staff should review whether the person is able to meaningfully engage with the
12 assessment in collaboration with the person. They agreed, based on their knowledge and
13 experience, that this would prevent staff members from automatically refusing assessment
14 on the grounds of intoxication, but encourage staff to consult with the patient and use their
15 professional judgment to decide when performing an assessment would be unethical at that
16 moment. The committee agreed that psychosocial assessments are still a priority in these
17 situations and that delays can be problematic, and therefore recommended that patients
18 should be regularly reviewed so that an assessment can take place as soon as appropriate.

19 The recommendation about breath and blood levels was based on the committee's
20 knowledge that breathalysers and blood alcohol tests did not accurately assess the ability of
21 a person to meaningfully engage with an assessment, and therefore could be used to
22 wrongly deny someone an assessment. In their experience, the committee agreed that
23 breathalysers and blood alcohol tests could cause harm to someone who has self-harmed by
24 delaying assessment.

25 The recommendation that an assessment should follow any existing care management plan
26 was based on the committee's experience and expertise. The committee discussed the fact
27 that people who self-harmed frequently sometimes had care plans in place and that there
28 was a risk that a full in-depth assessment might not be appropriate, especially for someone
29 who had already had one that day, for example. The committee agreed that such plans had
30 usually been agreed in collaboration with the person who had self-harmed, and therefore
31 existing plans should be incorporated into assessment in order to improve service user
32 satisfaction. However, the committee agreed that this did not override the importance of
33 offering psychosocial assessment for each episode of self-harm: the decision to limit the
34 extent of assessment and to follow an existing care plan should be made jointly between
35 clinicians and the person themselves.

36 The committee discussed the fact that patients often had preferences about how they wanted
37 to receive an assessment, including whether they wanted their assessment to be completed
38 by a man or a woman, which would allow them to feel more comfortable and therefore more
39 likely to engage with services. The committee agreed based on their experience that it was
40 important to consider the person's preferences and accommodate them where possible, as
41 this could have the important benefit of increasing patient satisfaction. The committee agreed
42 that reasonable adjustments should also be made for people with physical, mental health
43 and neurodevelopmental conditions based on their experience that psychosocial
44 assessments could be intimidating or disruptive for some people. The committee also
45 discussed the fact that people may have specific communication needs in order for an
46 assessment to be adequately conducted (including people for whom English is not a first
47 language) and therefore agreed that these needs should be taken into account in order to
48 improve accessibility and allow for a higher quality of care that was tailored to the needs of
49 the individual.

50 The recommendation that an assessment should take place in a private area was based on
51 the committee's experience that when assessments took place in a public space or in a

1 screened-off space where the assessment could be overheard, it was likely that the person
2 who had self-harmed would feel self-conscious or as though they were not being taken
3 seriously, and would feel unable to talk candidly about confidential and sensitive topics. The
4 committee agreed that an area should be designated for assessment purposes and that this
5 area should be appropriate for discussing private matters where other people cannot walk
6 through or overhear. Evidence from the qualitative review on the information and support
7 needs of people who have self-harmed (see Evidence Report A) also showed that people
8 valued privacy as well as having a safe and trusted environment in which they can feel
9 comfortable discussing self-harm.

10 The committee discussed the elements of the Therapeutic Assessment model employed in
11 Ougrin 2011/ 2013 and agreed that certain features of the assessment model should be
12 included in a psychosocial assessment in specialist settings. The evidence showed an
13 assessment model including identification of the target problem resulted in better
14 engagement with follow-up. The committee therefore discussed whether it was useful to
15 assess the motivation behind each individual incident for people who repeat self-harm and
16 felt there were benefits to doing so, including improved patient satisfaction and better
17 engagement with services as a result of a more tailored assessment. The committee
18 identified the fact that repeating this part of an assessment may be unnecessary for people
19 who presented multiple times. However, the consensus was that it was important to identify
20 the person's reasons for self-harming at each assessment, as there were often different
21 motivations for each episode of self-harm and it could pose a risk to assume previous
22 assessments were still relevant. The committee additionally discussed the need to consider
23 the involvement of family and carers as part of the assessment, as other qualitative evidence
24 from the review on involving family and carers in the management of self-harm showed that
25 people who had self-harmed and their family/ carers perceived an improvement in the quality
26 of care when family members and carers were involved in the person's care. The committee
27 also agreed that an assessment should take into account the person's treatment
28 preferences, based on their experience that doing so could result in improved quality of care
29 and encourage better engagement with services.

30 The committee agreed that any psychosocial assessment should also include an
31 assessment of risk. The recommendations about what a comprehensive psychosocial
32 assessment should include were therefore based primarily on the committee's experience
33 and expertise, supplemented by the moderate quality evidence as well as evidence from the
34 systematic review on risk assessment (see Evidence Report G). The committee considered
35 the evidence from the Ougrin 2011/ 2013 study, which showed that Therapeutic Assessment
36 that included consideration and enhancement of motivation for change, as well as an
37 exploration of ways of breaking identified 'vicious cycles' resulted in better engagement with
38 follow-up. The committee agreed that an assessment should look at the skills and strengths
39 of the person who has self-harmed as well as potential existing coping strategies as these
40 could have the important benefit of helping the person to develop ways to manage the urge
41 to self-harm, or support existing helping coping strategies. The committee also discussed
42 whether a diagnostic element that considered underlying psychiatric conditions such as
43 depression or obsessive-compulsive disorder should remain part of the assessment, and
44 considered the possible risk that this could undermine the importance of focusing on self-
45 harm as a phenomenon in its own right. However, the committee felt that self-harm should
46 not be seen as a homogenous expression of distress and that there were a number of
47 benefits to considering potential psychiatric diagnoses during assessment, such as
48 facilitating the provision of important evidence-based interventions for these conditions. The
49 committee also felt that it was important not to overlook the fact that people with
50 undiagnosed neurodevelopmental conditions may present with self-harm.

51 The evidence showed that an assessment model that featured consideration of 'reciprocal
52 roles' (internal working models of relationships), core pain and maladaptive procedures

1 (ways of coping that ultimately increase distress) had the important benefit of increasing
2 engagement with follow-up. The committee agreed based on their expertise that
3 assessments should take into account a history of trauma so that any treatment plan could
4 be informed by it, as trauma can often be a causal factor for self-harm. The committee
5 agreed that it is important to support the person to disclose a history of trauma, but that
6 clinicians should also be sensitive to how far the person may wish to discuss the detail of this
7 in a crisis.

8 Additionally, the committee discussed whether specific consideration should be given to
9 children regarding child protection issues, and agreed based on their experience that
10 safeguarding risks could exist for people of all ages. They therefore agreed that
11 consideration for safeguarding issues, including domestic violence, should be included in
12 assessments for all people who had self-harmed.

13 The committee also agreed based on their experience that it was important to consider the
14 person's ongoing access to means of self-harm in order to reduce the risk of future self-
15 harm. This discussion should be carried out collaboratively in order to reach a shared plan to
16 reduce access to means.

17 The committee also agreed based on their knowledge and experience that intoxication could
18 be an important risk factor for self-harm, that potential risks could arise due to withdrawal
19 where the person who had self-harmed was dependent on drugs or alcohol, and that drugs
20 and alcohol would be important to enquire about in terms of access to further means of self-
21 harm. The committee therefore agreed that substance misuse should be included in the
22 assessment. In addition, the committee discussed their experience that not infrequently,
23 people who had self-harmed presented under the influence of drugs or alcohol, and felt that
24 while psychosocial assessment should never be unnecessarily delayed, special
25 consideration should be given to the timing of assessment in people who are intoxicated.

26 The committee agreed that the needs of dependent children should be included in an
27 assessment, and discussed the fact that often people had dependents who were not
28 children. The recommendation that cultural considerations should be included in an
29 assessment was based on the committee's knowledge that cultural sensitivity could provide
30 a benefit of more tailored care and improve the person's engagement with services, as well
31 as qualitative evidence from the review on specialist staff skills which confirmed that some
32 people who had self-harmed wanted the impact of cultural, social and demographic factors
33 on self-harm to be considered during their care. The committee also discussed further
34 considerations for people from protected or marginalised groups, based on their experience
35 that methods of self-harm might differ for people in protected groups and that assessment
36 would need to be respectful of these factors. The committee agreed that it was important to
37 include the impact of discrimination in a psychosocial assessment based on their
38 understanding that discrimination was often a key factor in trauma and could be a causal
39 factor for self-harm. Finally, based on their expertise, the committee discussed the benefits
40 and risks associated with the use of social media and the internet for people who have self-
41 harmed, including the potential for people to be exposed to either triggering or helpful
42 content. The committee agreed that an assessment should include social media use and that
43 this should be done for people of all ages in order to ensure the guideline reflects the
44 frequency of internet use in the digital age.

45 The committee agreed that a psychosocial assessment should be used to develop a care
46 management plan. In addition, other qualitative evidence from the review on involving family
47 and carers in the management of self-harm showing that some people who had self-harmed
48 and their family/ carers wanted family members and carers to be involved in the person's
49 care was consistent with the recommendation that family and carers should be included in
50 the development of a care plan when appropriate.

1 The committee agreed that children should receive additional assessments of their family
2 and social situations because of their knowledge of the likelihood that these factors would
3 influence their self-harm. The committee also discussed whether specific considerations for
4 people over the age of 65 were necessary and agreed that additional consideration should
5 be given to their home situation, as well the fact that people in this age group were at higher
6 risk of experiencing loneliness and isolation and of dying by suicide. The committee also
7 agreed that people over the age of 65 who had self-harmed should have potential
8 comorbidities taken into particular consideration, based on their knowledge that older people
9 tend to be at higher risk for poor physical or mental health. The committee agreed that
10 paying additional attention to these factors for people over the age of 65 who had self-
11 harmed would reduce the potential for inappropriate interventions or follow-up to be offered
12 because of an incomplete assessment.

13 The committee agreed that providing the person with a copy of their care plan would
14 increase transparency, improving trust between service user and provider, based on the
15 committee's experience. Additionally, the committee agreed that providing any other relevant
16 healthcare professionals with the care management plan would ensure all staff are up-to-
17 date regarding the wants and needs of the person, improving the quality of their care and
18 their transition between services.

19 The HSIB report 'Investigation into the provision of mental health care to patients presenting
20 at the emergency department' (2018) informed the recommendation that there should be an
21 agreed procedure in place for people who wish to leave before treatment is complete, as the
22 committee agreed this would ensure patients who leave who are at risk of repeat self-harm
23 or suicide are identified so appropriate follow-up contact can be made. The committee
24 discussed what such an assessment should involve and agreed that an assessment of
25 immediate risks should be added to the recommendation, based on their experience that
26 such information could then be used to reduce the risk of acutely suicidal patients attempting
27 suicide or repeat self-harming after leaving the service.

28 There was insufficient evidence for the committee to define how frequent attendance for self-
29 harm would have to be to trigger a multidisciplinary review. However, the committee agreed
30 that this recommendation was still important based on their knowledge that the individual
31 circumstances of the person, including whether they are continuing to self-harm, should be
32 assessed to evaluate whether a multidisciplinary review is necessary. The committee agreed
33 that a multidisciplinary review should enable staff to reconsider current care, finding the most
34 suitable care approach for the person and therefore preventing further repeat self-harm.

35 **Cost effectiveness and resource use**

36 The committee noted that no relevant published economic evaluations had been identified
37 and no additional economic analysis had been undertaken in this area. They drafted
38 recommendations aimed to reduce variation across the NHS specialist mental health
39 services in delivering psychosocial assessments after self-harm. The committee
40 acknowledged the costs associated with psychosocial assessment but advised that this is
41 essential after an episode of self-harm and potentially harmful if delayed. They also agreed
42 that brief assessment if the person chose to leave before a full assessment takes place could
43 prevent repeat self-harm or attempted suicide, and therefore costs of assessment would be
44 offset by benefits to the person. They expressed the view that psychosocial assessment
45 which incorporates therapeutic elements such as identification of the target problem, takes
46 into account the preferences of the person who has self-harmed, and involves family
47 members and carers, as appropriate, is likely to improve quality of care, facilitate access to
48 care, and enhance service user satisfaction and engagement. The committee also expressed
49 the opinion that, although special considerations, provisions and adjustments for children and
50 young people as well as older adults in order to carry out the psychosocial assessment might

1 increase the cost of the assessment (for example, use of specially designated private areas
2 to carry out the assessment, giving a choice of a male or female health professional,
3 availability of specialist staff experienced in assessing older people), these would promote
4 safeguarding for children and young people and improve outcomes for protected groups
5 resulting from a more tailored assessment for the individual. The committee expressed the
6 view that the majority of recommendations are based on existing recommended practice and
7 that the additional recommended approaches for carrying out psychosocial assessments by
8 specialist mental health professionals should have a minimal effect on costs and not result in
9 a significant resource impact, depending on how services currently assess people who self-
10 harmed.

11 **Recommendations supported by this evidence review**

12 This evidence review supports recommendations 1.1.4 and 1.5.1 – 1.5.17. Other evidence
13 supporting these recommendations can be found in the evidence reviews on risk assessment
14 (evidence review G).

15 **References – included studies**

16 **Effectiveness**

Study
Johnson, L. L., O'Connor, S. S., Kaminer, B. et al. (2018) Evaluation of Structured Assessment and Mediating Factors of Suicide-Focused Group Therapy for Veterans Recently Discharged from Inpatient Psychiatry. Archives of Suicide Research: 1-19
Ougrin, D., Boege, I., Stahl, D. et al. (2013) Randomised controlled trial of therapeutic assessment versus usual assessment in adolescents with self-harm: 2-year follow-up. Archives of Disease in Childhood 98: 772-6
Ougrin, D., Zundel, T., Ng, A. et al. (2011) Trial of Therapeutic Assessment in London: randomised controlled trial of Therapeutic Assessment versus standard psychosocial assessment in adolescents presenting with self-harm. Archives of Disease in Childhood 96: 148-53
Pitman, A., Tsiachristas, A., Casey, D. et al. (2020) Comparing short-term risk of repeat self-harm after psychosocial assessment of patients who self-harm by psychiatrists or psychiatric nurses in a general hospital: Cohort study. Journal of affective disorders 272: 158-165

17 **Economic**

18 No studies were identified that met the inclusion criteria.

1 Appendices

2 Appendix A Review protocols

3 Review protocol for review question: How should assessment for people who have self-harmed be undertaken in 4 specialist settings?

5 Table 3: Review protocol

Field	Content
PROSPERO registration number	CRD42020215427
Review title	Assessment in specialist settings
Review question	How should assessment for people who have self-harmed be undertaken in specialist settings, such as <ul style="list-style-type: none">• community mental health services• emergency departments (by specialist staff)• inpatient mental health services?
Objective	To identify how assessment should be undertaken in specialist settings.
Searches	The following databases will be searched: <ul style="list-style-type: none">• Cochrane Central Register of Controlled Trials (CENTRAL)• Cochrane Database of Systematic Reviews (CDSR)• Database of Abstracts of Reviews of Effects (DARE)• Embase• Emcare• International Health Technology Assessment (IHTA) database• MEDLINE & MEDLINE In-Process• PsycINFO Searches will be restricted by: <ul style="list-style-type: none">• English language studies• Human studies• Date: 2000 onwards as the current service context is different from pre-2000. Other searches:

Field	Content
	<ul style="list-style-type: none"> • Inclusion lists of systematic reviews • Reference lists of included studies <p>The full search strategies will be published in the final review.</p>
Condition or domain being studied	<p>All people who have self-harmed, including those with a mental health problem, neurodevelopmental disorder or a learning disability.</p> <p>'Self-harm' is defined as intentional self-poisoning or injury irrespective of the apparent purpose of the act. This does not include repetitive stereotypical self-injurious behaviour, for example head-banging in people with a significant learning disability.</p>
Population	<p>Inclusion:</p> <ul style="list-style-type: none"> • All people who have self-harmed, including those with a mental health problem, neurodevelopmental disorder or a learning disability, who have presented to specialist mental health services <p>Exclusion:</p> <ul style="list-style-type: none"> • People displaying repetitive stereotypical self-injurious behaviour, for example head-banging in people with a significant learning disability • People who have self-harmed who have presented to non-specialist settings
Intervention	<p>Model of assessment A, e.g.,</p> <ul style="list-style-type: none"> • assessment including principles of active listening, • therapeutic assessment, • comprehensive biopsychosocial assessment, • assessment performed by different professions [e.g., psychiatric nurses], • culturally sensitive assessment
Comparator/Reference standard/Confounding factors	<p>Model of assessment B, e.g.,</p> <ul style="list-style-type: none"> • assessment not including principles of active listening, • triage assessment, • assessment performed by different professions [e.g., doctors], • uniform assessment (i.e., not taking culture into account)
Types of study to be included	<ul style="list-style-type: none"> • Systematic review of randomised controlled trials (RCTs) or non-randomised comparative prospective and retrospective cohort studies • RCTs • Non-randomised comparative prospective cohort studies with N≥100 per treatment arm • Non-randomised comparative retrospective cohort studies with N≥100 per treatment arm <p>Conference abstracts will not be included.</p> <p>Non-randomised studies should adjust for the following covariates in their analysis when there are differences between groups at baseline: age, gender, previous self-harm, comorbidities (e.g. alcohol and drug misuse, psychiatric illness, physical illness), and current psychiatric</p>

Field	Content
	treatment. Studies will be downgraded for risk of bias if important covariates are not adequately adjusted for, but will not be excluded for this reason.
Other exclusion criteria	<p>Studies will not be included for the following reasons:</p> <p>Language: Non-English</p> <p>Publication status: Abstract only</p> <p>Studies published in languages other than English will not be considered due to time and resource constraints with translation.</p>
Context	<p>Settings:</p> <p>Inclusion:</p> <ul style="list-style-type: none"> • Community mental health services • Emergency departments • Inpatient mental health services <p>Exclusion:</p> <ul style="list-style-type: none"> • Non-specialist settings
Primary outcomes (critical outcomes)	<p>Critical:</p> <ul style="list-style-type: none"> • Self-harm repetition (for example, self-poisoning or self-cutting) • Service user satisfaction (dignity, compassion and respect) • Suicide
Secondary outcomes (important outcomes)	<p>Important:</p> <ul style="list-style-type: none"> • Quality of life • Initiation of safeguarding procedures • Distress • Engagement with after-care
Data extraction (selection and coding)	<p>All references identified by the searches and from other sources will be uploaded into EPPI and de-duplicated.</p> <p>Titles and abstracts of the retrieved citations will be screened to identify studies that potentially meet the inclusion criteria outlined in the review protocol.</p> <p>Dual sifting will be performed on 10% of records; 90% agreement is required. Disagreements will be resolved via discussion between the two reviewers, and consultation with senior staff if necessary.</p>

Field	Content
	<p>Full versions of the selected studies will be obtained for assessment. Studies that fail to meet the inclusion criteria once the full version has been checked will be excluded at this stage. Each study excluded after checking the full version will be listed, along with the reason for its exclusion.</p> <p>A standardised form will be used to extract data from studies. The following data will be extracted: study details (reference, country where study was carried out, type and dates), participant characteristics, inclusion and exclusion criteria, details of the interventions, setting and follow-up, relevant outcome data, risk of bias and source of funding. One reviewer will extract relevant data into a standardised form, and this will be quality assessed by a senior reviewer.</p>
Risk of bias (quality) assessment	<p>Quality assessment of individual studies will be performed using the following checklists:</p> <ul style="list-style-type: none"> • ROBIS tool for systematic reviews • Cochrane RoB tool v.2 for RCTs and quasi-RCTs • Cochrane ROBINS-I tool for non-randomised (clinical) controlled trials and cohort studies <p>The quality assessment will be performed by one reviewer and this will be quality assessed by a senior reviewer.</p>
Strategy for data synthesis	<p>Quantitative findings will be formally summarised in the review. Where multiple studies report on the same outcome for the same comparison, meta-analyses will be conducted using Cochrane Review Manager software. A fixed effect meta-analysis will be conducted and data will be presented as risk ratios if possible or odds ratios when required (for example if only available in this form in included studies) for dichotomous outcomes, and mean differences or standardised mean differences for continuous outcomes. Heterogeneity in the effect estimates of the individual studies will be assessed using the I² statistic. I² values of greater than 50% and 80% will be considered as significant and very significant heterogeneity, respectively. Heterogeneity will be explored as appropriate using sensitivity analyses and subgroup analyses based on identified covariates if they have not been adjusted for. If heterogeneity cannot be explained through subgroup analysis then a random effects model will be used for meta-analysis, or the data will not be pooled if the random effects model does not adequately address heterogeneity.</p> <p>The confidence in the findings across all available evidence will be evaluated for each outcome using an adaptation of the 'Grading of Recommendations Assessment, Development and Evaluation (GRADE) toolbox' developed by the international GRADE working group: http://www.gradeworkinggroup.org/</p>
Analysis of sub-groups	<p>Evidence (if data allows) will be stratified by:</p> <ul style="list-style-type: none"> • Age group: ≥65 years, 18-64 years, 16-17 years, <16 • Setting: community mental health services, emergency departments, inpatient mental health services • First episode of self-harm v not first episode of self-harm
Type and method of review	Intervention
Language	English
Country	England
Anticipated or actual start date	7/10/2020
Anticipated completion date	26/01/2022

Field	Content		
Stage of review at time of this submission	Review stage	Started	Completed
	Preliminary searches	<input type="checkbox"/>	<input type="checkbox"/>
	Piloting of the study selection process	<input type="checkbox"/>	<input type="checkbox"/>
	Formal screening of search results against eligibility criteria	<input type="checkbox"/>	<input type="checkbox"/>
	Data extraction	<input type="checkbox"/>	<input type="checkbox"/>
	Risk of bias (quality) assessment	<input type="checkbox"/>	<input type="checkbox"/>
	Data analysis	<input type="checkbox"/>	<input type="checkbox"/>
Named contact	5a. Named contact: National Guideline Alliance		
	5b Named contact e-mail: selfharm@nice.org.uk		
	5e Organisational affiliation of the review: National Institute for Health and Care Excellence (NICE) and National Guideline Alliance		
Review team members	National Guideline Alliance		
Funding sources/sponsor	This systematic review is being completed by the National Guideline Alliance which receives funding from NICE.		
Conflicts of interest	All guideline committee members and anyone who has direct input into NICE guidelines (including the evidence review team and expert witnesses) must declare any potential conflicts of interest in line with NICE's code of practice for declaring and dealing with conflicts of interest. Any relevant interests, or changes to interests, will also be declared publicly at the start of each guideline committee meeting. Before each meeting, any potential conflicts of interest will be considered by the guideline committee Chair and a senior member of the development team. Any decisions to exclude a person from all or part of a meeting will be documented. Any changes to a member's declaration of interests will be recorded in the minutes of the meeting. Declarations of interests will be published with the final guideline.		
Collaborators	Development of this systematic review will be overseen by an advisory committee who will use the review to inform the development of evidence-based recommendations in line with section 3 of Developing NICE guidelines: the manual. Members of the guideline committee		

Field	Content
	are available on the NICE website: https://www.nice.org.uk/guidance/indevelopment/gid-ng10148 .
Other registration details	None
URL for published protocol	https://www.crd.york.ac.uk/prospero/display_record.php?RecordID=215427
Dissemination plans	NICE may use a range of different methods to raise awareness of the guideline. These include standard approaches such as: notifying registered stakeholders of publication publicising the guideline through NICE's newsletter and alerts issuing a press release or briefing as appropriate, posting news articles on the NICE website, using social media channels, and publicising the guideline within NICE.
Keywords	Self-harm, assessment, management, prevention, specialist, health care
Details of existing review of same topic by same authors	None
Current review status	Ongoing
Additional information	Not applicable
Details of final publication	www.nice.org.uk

1
2
3

CDSR: Cochrane Database of Systematic Reviews; CENTRAL: Cochrane Central Register of Controlled Trials; GRADE: Grading of Recommendations Assessment, Development and Evaluation; NGA: National Guideline Alliance; NICE: National Institute for Health and Care Excellence; RCT(s): randomised controlled trial(s); RevMan: review manager; RoB: risk of bias; ROBINS-I: Risk Of Bias In Non-randomized Studies - of Interventions

Appendix B Literature search strategies

Literature search strategies for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

Clinical

Database(s): MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily – OVID interface

Date of last search: 7th October 2020

#	searches
1	self mutilation/ or self-injurious behavior/ or suicidal ideation/ or suicide, attempted/ or suicide, completed/ or suicide/
2	(self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*).tw.
3	or/1-2
4	needs assessment/ or *outcome assessment, health care/ or nursing assessment/ or personality assessment/ or *process assessment, health care/ or risk assessment/
5	((psychologic* or mental health or psychiatric or psychometric* or psychosocial* or psycho social* or therapeutic) adj2 (assess* or evaluation*)).ti,ab.
6	((biopsychosocial or bio psychosocial) adj2 (assess* or evaluation* or index or instrument* or interview* or inventor* or item* or measure*1 or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)).ti,ab.
7	(assess* adj5 (clinician* or counsel?or* or doctor* or gp or lecturer* or neuropsychiatrist* or neuropsychologist* or neurospecialist* or nurs* or paramedic* or pharmacist* or police* or practitioner* or professional* or psychiatrist* or psychologist* or psychotherapist* or specialist* or staff* or teacher* or therapist* or warden* or worker*)).ti,ab.
8	(assess* adj5 (a&e or (acute adj3 (care or medicine)) or admission* or ambulance* or center* or centre* or cmhs or college* or communit* or criminal justice or department* or emergenc* or general practice or home*1 or hospital* or (intensive adj3 (care or medicine*)) or jail* or justice system* or penitentiary* or pharmacy or pharmacies or primary care or prison* or school* or setting* or (social adj2 (care or service* or setting* or ward*)) or universit* or ward*)).ti,ab.
9	(clinical adj1 (assess* or evaluat*)).ti,ab.
10	(assess* adj7 (african* or arabic* or asian* or bame or bangladeshi or black or bme or caribbean or chinese or cultur* or ethnic* or ethno* or indian* or multicultural* or multi cultur* or pakistani or race or racial)).ti,ab.
11	((self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or overdose* or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*) adj3 (assess* or evaluation*)).ti,ab. or ((self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self

#	searches
	destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or overdose* or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*) and assess*).ti.
12	(assessment* adj3 (index or instrument* or interview* or inventor* or item* or measure*1 or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)).ti,ab.
13	or/4-12
14	3 and 13
15	letter/ or editorial/ or news/ or exp historical article/ or anecdotes as topic/ or comment/ or case report/ or (letter or comment*).ti. or (animals not humans).sh. or exp animals, laboratory/ or exp animal experimentation/ or exp models, animal/ or exp rodentia/ or (rat or rats or mouse or mice).ti.
16	14 not 15
17	limit 16 to english language
18	limit 17 to yr="2000 -current"

Database(s): Embase and Emcare – OVID interface

Date of last search: 7th October 2020

#	searches
1	automutilation/ or exp suicidal behavior/
2	(self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*).tw.
3	or/1-2
4	needs assessment/ or *outcome assessment, health care/ or nursing assessment/ or personality assessment/ or *process assessment, health care/ or risk assessment/
5	((psychologic* or mental health or psychiatric or psychometric* or psychosocial* or psycho social* or therapeutic) adj2 (assess* or evaluation*)).ti,ab.
6	((biopsychosocial or bio psychosocial) adj2 (assess* or evaluation* or index or instrument* or interview* or inventor* or item* or measure*1 or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)).ti,ab.
7	(assess* adj5 (clinician* or counsel?or* or doctor* or gp or lecturer* or neuropsychiatrist* or neuropsychologist* or neurospecialist* or nurs* or paramedic* or pharmacist* or police* or practitioner* or professional* or psychiatrist* or psychologist* or psychotherapist* or specialist* or staff* or teacher* or therapist* or warden* or worker*)).ti,ab.
8	(assess* adj5 (a&e or (acute adj3 (care or medicine)) or admission* or ambulance* or center* or centre* or cmhs or college* or communit* or criminal justice or department* or emergenc* or general practice or home*1 or hospital* or (intensive adj3 (care or medicine*)) or jail* or justice system* or penitentiary* or pharmacy or pharmacies or primary care or prison* or school* or setting* or (social adj2 (care or service* or setting* or ward*)) or universit* or ward*)).ti,ab.

#	searches
9	(clinical adj1 (assess* or evaluat*)).ti,ab.
10	(assess* adj7 (african* or arabic* or asian* or bame or bangladeshi or black or bme or caribbean or chinese or cultur* or ethnic* or ethno* or indian* or multicultural* or multi cultur* or pakistani or race or racial)).ti,ab.
11	((self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or overdose* or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*) adj3 (assess* or evaluation*)).ti,ab. or ((self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or overdose* or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*) and assess*).ti.
12	(assessment* adj3 (index or instrument* or interview* or inventor* or item* or measure*1 or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)).ti,ab.
13	or/4-12
14	3 and 13
15	(animal/ not human/) or exp Animal Experiment/ or animal model/ or exp Experimental Animal/ or nonhuman/ or exp Rodent/ or (rat or rats or mouse or mice).ti.
16	14 not 15
17	limit 16 to english language
18	limit 17 to yr="2000 -current"

Database(s): PsycINFO – OVID interface

Date of last search: 7th October 2020

#	Searches
1	self-injurious behavior/ or self-destructive behavior/ or self-inflicted wounds/ or self-mutilation/ or self-poisoning/ or exp suicide/ or suicidal ideation/
2	(self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*).tw.
3	or/1-2
4	needs assessment/ or risk assessment/
5	((psychologic* or mental health or psychiatric or psychometric* or psychosocial* or psycho social* or therapeutic) adj2 (assess* or evaluation*)).ti,ab.
6	((biopsychosocial or bio psychosocial) adj2 (assess* or evaluation* or index or instrument* or interview* or inventor* or item* or measure*1 or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)).ti,ab.
7	(assess* adj5 (clinician* or counsel?or* or doctor* or gp or lecturer* or neuropsychiatrist* or neuropsychologist* or neurospecialist* or nurs* or paramedic* or pharmacist* or police* or practitioner* or professional* or psychiatrist* or psychologist* or psychotherapist* or specialist* or staff* or teacher* or therapist* or warden* or worker*)).ti,ab.

#	Searches
8	(assess* adj5 (a&e or (acute adj3 (care or medicine)) or admission* or ambulance* or center* or centre* or cmhs or college* or communit* or criminal justice or department* or emergenc* or general practice or home*1 or hospital* or (intensive adj3 (care or medicine*)) or jail* or justice system* or penitentiary* or pharmacy or pharmacies or primary care or prison* or school* or setting* or (social adj2 (care or service* or setting* or ward*)) or universit* or ward*)).ti,ab.
9	(clinical adj1 (assess* or evaluat*)).ti,ab.
10	(assess* adj7 (african* or arabic* or asian* or bame or bangladeshi or black or bme or caribbean or chinese or cultur* or ethnic* or ethno* or indian* or multicultural* or multi cultur* or pakistani or race or racial)).ti,ab.
11	((self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or overdose* or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*) adj3 (assess* or evaluation*)).ti,ab. or ((self harm* or selfharm* or self injur* or selfinjur* or self mutilat* or selfmutilat* or suicid* or self destruct* or selfdestruct* or self poison* or selfpoison* or (self adj2 cut*) or overdose* or self immolat* or self immolat* or selfinflict* or self inflict* or auto mutilat* or automutilat*) and assess*).ti.
12	(assessment* adj3 (index or instrument* or interview* or inventor* or item* or measure*1 or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)).ti,ab.
13	or/4-12
14	3 and 13
15	limit 14 to english language
16	limit 15 to yr="2000 -current"

Database(s): Cochrane Library - Wiley interface

Cochrane Database of Systematic Reviews, Issue 10 of 12, October 2020; Cochrane Central Register of Controlled Trials, Issue 10 of 12, October 2020

Date of last search: 7th October 2020

#	searches
1	MeSH descriptor: [poisoning] this term only
2	MeSH descriptor: [self-injurious behavior] explode all trees
3	MeSH descriptor: [self mutilation] this term only
4	MeSH descriptor: [suicide] this term only
5	MeSH descriptor: [suicidal ideation] this term only
6	MeSH descriptor: [suicide, attempted] this term only
7	MeSH descriptor: [suicide, completed] this term only
8	(automutilat* or "auto mutilat*" or cutt* or (self near/2 cut*) or selfdestruct* or "self destruct*" or selfharm* or "self harm*" or selfimmolat* or "self immolat*" or selfinflict* or "self inflict*" or selfinjur* or "self injur*" or selfmutilat* or "self mutilat*" or selfpoison* or "self poison*" or selfwound* or "self wound*" or suicid*):ti,ab.
9	{or #1-#8}
10	MeSH descriptor: [needs assessment] this term only
11	MeSH descriptor: [outcome assessment, health care] this term only

#	searches
12	MeSH descriptor: [nursing assessment] this term only
13	MeSH descriptor: [personality assessment] this term only/
14	MeSH descriptor: [process assessment, health care] this term only
15	MeSH descriptor: [risk assessment] this term only
16	((psychologic* or "mental health" or psychiatric or psychometric* or psychosocial* or "psycho social*" or therapeutic) near/2 (assess* or evaluation*)):ti,ab.
17	((biopsychosocial or "bio psychosocial") near/2 (assess* or evaluation* or index or instrument* or interview* or inventor* or item* or measure* or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)):ti,ab.
18	(assess* near/5 (clinician* or counsel?or* or doctor* or gp or lecturer* or neuropsychiatrist* or neuropsychologist* or neurospecialist* or nurs* or paramedic* or pharmacist* or police* or practitioner* or professional* or psychiatrist* or psychologist* or psychotherapist* or specialist* or staff* or teacher* or therapist* or warden* or worker*)):ti,ab.
19	(assess* near/5 (a&e or (acute near/3 (care or medicine)) or admission* or ambulance* or center* or centre* or cmhs or college* or communit* or "criminal justice" or department* or emergenc* or "general practice" or home* or hospital* or (intensive near/3 (care or medicine*)) or jail* or "justice system*" or penitentiary* or pharmacy or pharmacies or "primary care" or prison* or school* or setting* or (social near/2 (care or service* or setting* or ward*))) or universit* or ward*)):ti,ab.
20	(clinical near/1 (assess* or evaluat*)):ti,ab.
721	(assess* near/7 (african* or arabic* or asian* or bame or bangladeshi or black or bme or caribbean or chinese or cultur* or ethnic* or ethno* or indian* or multicultural* or "multi cultur*" or pakistani or race or racial)):ti,ab.
22	((("self harm*" or selfharm* or "self injur*" or selfinjur* or "self mutilat*" or selfmutilat* or suicid* or "self destruct*" or selfdestruct* or "self poison*" or selfpoison* or (self near/2 cut*) or overdose* or "self immolat*" or "self immolat*" or selfinflict* or "self inflict*" or "auto mutilat*" or automutilat*) near/3 (assess* or evaluation*)):ti,ab. or ((("self harm*" or selfharm* or "self injur*" or selfinjur* or "self mutilat*" or selfmutilat* or suicid* or "self destruct*" or selfdestruct* or "self poison*" or selfpoison* or (self near/2 cut*) or overdose* or "self immolat*" or self immolat* or selfinflict* or "self inflict*" or "auto mutilat*" or automutilat*) and assess*)):ti.
23	(assessment* near/3 (index or instrument* or interview* or inventor* or item* or measure* or questionnaire* or rate* or rating or scale* or score* or screen* or subscale* or survey* or test* or tool*)):ti,ab.
24	{OR #10-#23}
25	(#9 and #24) with Cochrane Library publication date Between Jan 2000 and Oct 2020

Database(s): CDSR and HTA – CRD interface

Date of last search: 7th October 2020

#	Searches
1	MeSH descriptor: poisoning IN CDSR, HTA

#	Searches
2	MeSH descriptor: self-injurious behavior EXPLODE ALL TREES IN CDSR, HTA
3	MeSH descriptor: self mutilation IN CDSR, HTA
4	MeSH descriptor: suicide IN CDSR, HTA
5	MeSH descriptor: suicidal ideation IN CDSR, HTA
6	MeSH descriptor: suicide, attempted IN CDSR, HTA
7	MeSH descriptor: suicide, completed IN CDSR, HTA
8	(automutilat* or "auto mutilat*" or cutt* or (self near2 cut*) or selfdestruct* or "self destruct*" or selfharm* or "self harm*" or selfimmolat* or "self immolat*" or selfinflict* or "self inflict*" or selfinjur* or "self injur*" or selfmutilat* or "self mutilat*" or selfpoison* or "self poison*" or selfwound* or "self wound*" or suicid*) IN CDSR, HTA
9	(#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8) from 2000 to 2020

Economic

A global, population based search was undertaken to find for economic evidence covering all parts of the guideline.

Database(s): MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily – OVID interface

Date of last search: 12th August 2021

#	Searches
1	poisoning/ or exp self-injurious behavior/ or self mutilation/ or suicide/ or suicidal ideation/ or suicide, attempted/ or suicide, completed/
2	(automutilat* or auto mutilat* or cutt* or (self adj2 cut*) or selfdestruct* or self destruct* or selfharm* or self harm* or selfimmolat* or self immolat* or selfinflict* or self inflict* or selfinjur* or self injur* or selfmutilat* or self mutilat* or selfpoison* or self poison* or selfwound* or self wound* or suicid*).ti,ab.
3	or/1-2
4	Economics/
5	Value of life/
6	exp "Costs and Cost Analysis"/
7	exp Economics, Hospital/
8	exp Economics, Medical/
9	Economics, Nursing/
10	Economics, Pharmaceutical/
11	exp "Fees and Charges"/
12	exp Budgets/
13	budget*.ti,ab.
14	cost*.ti.
15	(economic* or pharmaco?economic*).ti.
16	(price* or pricing*).ti,ab.
17	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
18	(financ* or fee or fees).ti,ab.

#	Searches
19	(value adj2 (money or monetary)).ti,ab.
20	Quality-Adjusted Life Years/
21	Or/4-20
22	3 and 21
23	limit 22 to yr="2000 -current"

Database(s): Embase and Emcare – OVID interface

Date of last search: 12th August 2021

#	searches
1	automutilation/ or exp suicidal behavior/
2	(auto mutilat* or automutilat* or self cut* or selfcut* or self destruct* or selfdestruct* or self harm* or selfharm* or self immolat* or selfimmolat* or self inflict* or selfinflict* or self injur* or selfinjur* or self mutilat* or selfmutilat* or self poison* or selfpoison* or suicid*).ti,ab.
3	or/1-2
4	health economics/
5	exp economic evaluation/
6	exp health care cost/
7	exp fee/
8	budget/
9	funding/
10	budget*.ti,ab.
11	cost*.ti.
12	(economic* or pharmaco?economic*).ti.
13	(price* or pricing*).ti,ab.
14	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
15	(financ* or fee or fees).ti,ab.
16	(value adj2 (money or monetary)).ti,ab.
17	Quality-Adjusted Life Year/
18	Or/4-17
19	3 and 18
20	limit 19 to yr="2000 -current"

Database(s): Cochrane Library - Wiley interface

Cochrane Central Register of Controlled Trials, Issue 8 of 12, August 2021

Date of last search: 12th August 2021

#	Searches
1	MeSH descriptor: [poisoning] this term only
2	MeSH descriptor: [self-injurious behavior] explode all trees
3	MeSH descriptor: [self mutilation] this term only
4	MeSH descriptor: [suicide] this term only
5	MeSH descriptor: [suicidal ideation] this term only

#	Searches
6	MeSH descriptor: [suicide, attempted] this term only
7	MeSH descriptor: [suicide, completed] this term only
8	(automutilat* or "auto mutilat*" or cutt* or (self near/2 cut*) or selfdestruct* or "self destruct*" or selfharm* or "self harm*" or selfimmolat* or "self immolat*" or selfinflict* or "self inflict*" or selfinjur* or "self injur*" or selfmutilat* or "self mutilat*" or selfpoison* or "self poison*" or selfwound* or "self wound*" or suicid*):ti,ab.
9	{or #1-#8}
10	MeSH descriptor: [Economics] this term only
11	MeSH descriptor: [Value of life] this term only
12	MeSH descriptor: [Costs and Cost Analysis] explode all trees
13	MeSH descriptor: [Economics, Hospital] explode all trees
14	MeSH descriptor: [Economics, Medical] explode all trees
15	MeSH descriptor: [Economics, Nursing] this term only
16	MeSH descriptor: [Economics, Pharmaceutical] this term only
17	MeSH descriptor: [Fees and Charges"]
18	MeSH descriptor: [Budgets] this term only
19	budget*:ti,ab.
20	cost*.ti.
21	(economic* or pharmaco?economic*):ti.
22	(price* or pricing*):ti,ab.
23	(cost* near/2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)):ab.
24	(financ* or fee or fees):ti,ab.
25	(value near/2 (money or monetary)):ti,ab.
26	MeSH descriptor: [Quality-Adjusted Life Years] this term only
27	{OR #10-#26}
28	(#9 and #27) with Cochrane Library publication date Between Jan 2000 and Aug 2021

Database(s): NHS EED and HTA – CRD interface

Date of last search: 12th August 2021

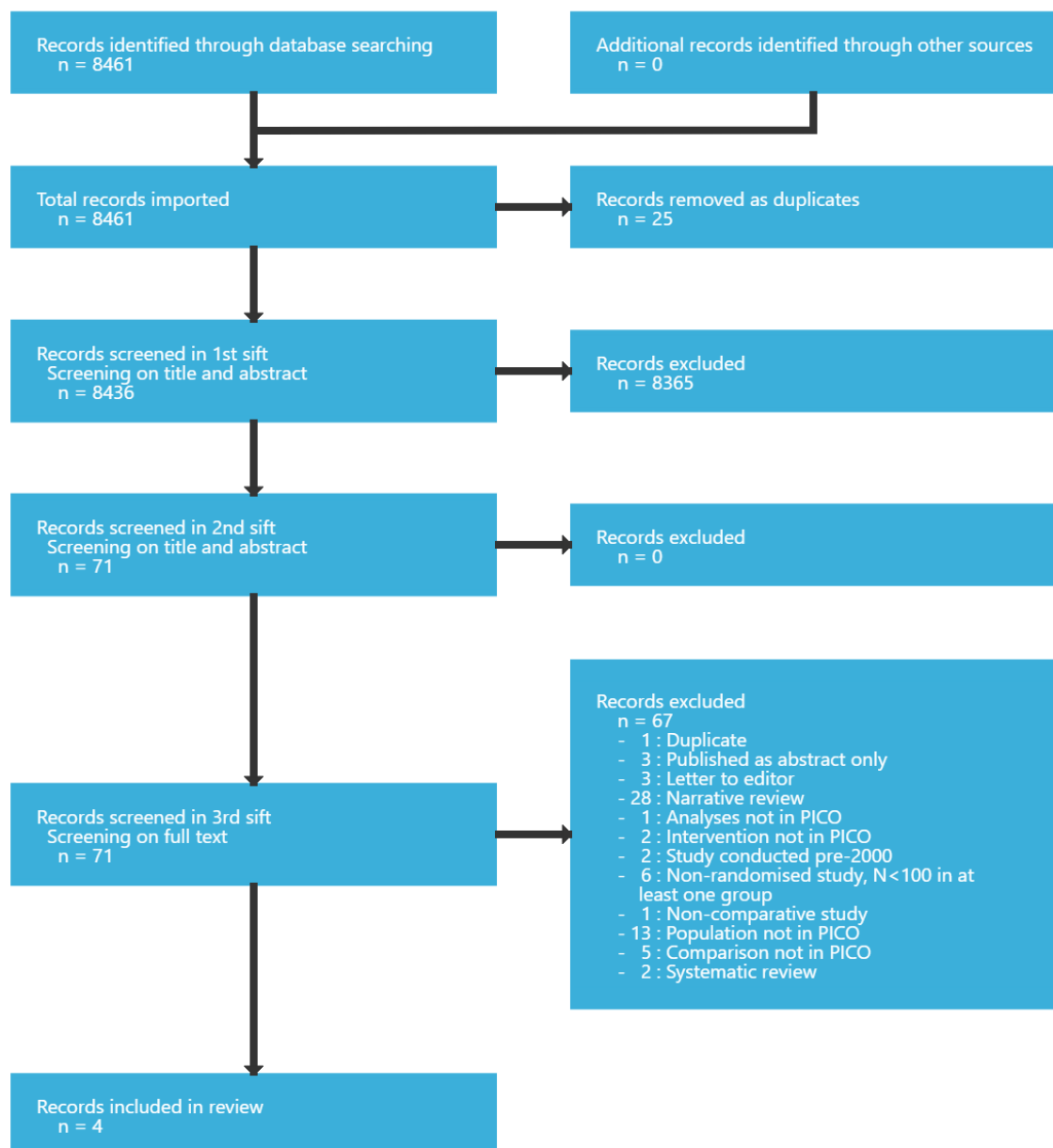
#	Searches
1	MeSH descriptor: poisoning IN NHSEED, HTA
2	MeSH descriptor: self-injurious behavior EXPLODE ALL TREES IN NHSEED, HTA
3	MeSH descriptor: self mutilation IN NHSEED, HTA
4	MeSH descriptor: suicide IN NHSEED, HTA
5	MeSH descriptor: suicidal ideation IN NHSEED, HTA
6	MeSH descriptor: suicide, attempted IN NHSEED, HTA
7	MeSH descriptor: suicide, completed IN NHSEED, HTA
8	(automutilat* or "auto mutilat*" or cutt* or (self near2 cut*) or selfdestruct* or "self destruct*" or selfharm* or "self harm*" or selfimmolat* or "self immolat*" or selfinflict* or "self inflict*" or selfinjur* or "self injur*" or selfmutilat* or "self mutilat*" or selfpoison* or "self poison*" or selfwound* or "self wound*" or suicid*) IN NHSEED, HTA
9	(#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8) from 2000 to 2021

Appendix C Clinical evidence study selection

Study selection for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

Please note that the current search was undertaken with the search for review question E (How should assessment for people who have self-harmed be undertaken in non-specialist settings?). Note the PRISMA flow chart reflects the current review question; no studies were identified for inclusion in review question E.

Figure 1: Study selection flow chart



Appendix D Evidence tables

Evidence tables for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

Table 4: Evidence tables

Johnson, 2018

Bibliographic Reference Johnson, L. L.; O'Connor, S. S.; Kaminer, B.; Gutierrez, P. M.; Carney, E.; Groh, B.; Jobes, D. A.; Evaluation of Structured Assessment and Mediating Factors of Suicide-Focused Group Therapy for Veterans Recently Discharged from Inpatient Psychiatry; Archives of Suicide Research; 2018; 1-19

Study details

Country/ies where study was carried out	USA
Study type	Randomised controlled trial (RCT)
Study dates	Not reported
Inclusion criteria	Veterans recruited from an inpatient psychiatry unit following a recent suicide attempt or for whom suicidal ideal was a primary presenting problem
Exclusion criteria	<ul style="list-style-type: none"> Prominent problems with psychotic symptoms or significant cognitive impairments
Patient characteristics	<p>Suicide Status Form-Assessment Group Therapy (SSF-AGT)</p> <ul style="list-style-type: none"> n=65 Mean age (SD) 47.72 (1.46) years Sex (female/ male): 6/ 59 Ethnicity: White/ Caucasian n=50; Black/ African American n=11; Asian/ Asian American n=1; Native American/ American Indian n=1; Native Hawaiian or Pacific Islander n=1; Puerto Rican or Hispanic/ Latino n=1 Comorbidities: Not reported Duration/ history of self-harm: Not reported Self-harm before the current episode: Not reported Mean number of suicide attempts (SD): 1.74 (2.3) Method of self-harm: Not reported Current psychiatric treatment: Not reported but note setting inpatient psychiatric unit Assessment setting: Not reported but note setting inpatient psychiatric unit <p>Usual Assessment Group Therapy (UAGT)</p> <ul style="list-style-type: none"> n=69 Mean age (SD): 48.33 (11.17) years Sex (female/ male): 10/ 59 Ethnicity: White/ Caucasian n=45; Black/ African American n=18; Asian/ Asian American n=1; Native American/ American Indian n=1; Native Hawaiian or Pacific Islander n=2; Puerto Rican or Hispanic/ Latino n=2

	<ul style="list-style-type: none"> • Comorbidities: Not reported • Duration/ history of self-harm: Not reported • Self-harm before the current episode: Not reported • Mean number of suicide attempts (SD): 1.91 (6.4) • Method of self-harm: Not reported • Current psychiatric treatment: Not reported but note setting inpatient psychiatric unit • Assessment setting: Not reported but note setting inpatient psychiatric unit
Intervention (for all relevant groups)	<p>SSF-AGT: Co-led by 2 therapists (licensed clinical psychologist and a licensed clinical social worker)*, and comprised up to 12 participants. Group co-leader introduction, written handout of the next 4 study group appointments and answered any questions, and worked with the individual to complete sections A and B of the SSF initial session form (concerned with overall risk assessment). The group began with individual completion of Section A of the SSF tracking form, which asked patients to: (1) rate their current levels of psychological pain, stress, agitation, hopelessness, self-hate, and overall risk of suicide using a 1–5 rating scale; and (2) report the presence of suicidal thoughts, ability to manage suicidal urges, and suicide behaviours since the last session. After completion of the form, each group member took a turn reporting on his or her scores and replies to the questions on the form. Group discussion then followed after completion of the SSF. Groups were held weekly and participants could attend up to 12 sessions. Upon discharge from inpatient treatment, each participant was scheduled into the next session of his/her randomly assigned treatment group</p> <p>UAGT: Co-led by 2 therapists (licensed clinical psychologist and a licensed clinical social worker)*, and comprised up to 12 participants. Group co-leader introduction, written handout of the next 4 study group appointments and answered any questions. In this group co-leaders applied informal risk assessment techniques, specifically, asking each group member at the outset of group, “How have you been doing in the past week with suicidal thoughts, plans, intent,” and so on. Group discussion would then follow from whatever was identified in the check-in. Groups were held weekly and participants could attend up to 12 sessions. Upon discharge from inpatient treatment, each participant was scheduled into the next session of his/her randomly assigned treatment group.</p> <p>* The same 2 therapists led both groups.</p>
Duration of follow-up	1 and 3 months
Sources of funding	Military Suicide Research Consortium
Results	<p>Satisfaction with mental health care (assessed with: Client Satisfaction Questionnaire (CSQ); Scale from: 1 to 32)</p> <ul style="list-style-type: none"> • 3 months (after assessment) <ul style="list-style-type: none"> ○ SSF-AGT mean (SD): 29.8 (2.98) ○ UAGT mean (SD): 28.96 (5.07) <p>Overall symptom distress (assessed with: Outcome Questionnaire 45.2; Scale from: 0 to 100)</p> <ul style="list-style-type: none"> • 1 month (after assessment) <ul style="list-style-type: none"> ○ SSF-AGT mean (SD): 84.31 (19.91) ○ UAGT mean (SD): 83.71 (19.60) • 3 months (after assessment) <ul style="list-style-type: none"> ○ SSF-AGT mean (SD): 79.65 (20.72)

	<ul style="list-style-type: none"> ○ UAGT mean (SD): 75.12 (20.85) <p>Number of weekly group sessions attended during follow-up</p> <ul style="list-style-type: none"> • 1 month (after assessment) <ul style="list-style-type: none"> ○ SSF-AGT mean (SD): 2.26 (1.61) ○ UAGT mean (SD): 2.39 (1.50) • 3 months (after assessment) <ul style="list-style-type: none"> ○ SSF-AGT mean (SD): 5.23 (4.35) ○ UAGT mean (SD): 5.83 (4.24)
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Critical appraisal

Section	Question	Answer
Domain 1: Bias arising from the randomisation process	Risk of bias judgement for the randomisation process	Some concerns <i>(insufficient information to ascertain if randomisation process was appropriate)</i>
Domain 2a: Risk of bias due to deviations from the intended interventions (effect of assignment to intervention)	Risk of bias for deviations from the intended interventions (effect of assignment to intervention)	High <i>(Authors state that use of the suicide assessment form in the experimental group affected the normal running of group therapy)</i>
Domain 2b: Risk of bias due to deviations from the intended interventions (effect of adhering to intervention)	Risk of bias for deviations from the intended interventions (effect of adhering to intervention)	Low <i>(Number of therapy sessions attended per participant was recorded and was similar between groups)</i>
Domain 3. Bias due to missing outcome data	Risk-of-bias judgement for missing outcome data	High <i>(Reasons for differentially incomplete follow-up between intervention groups not explained)</i>
Domain 4. Bias in measurement of the outcome	Risk-of-bias judgement for measurement of the outcome	Some concerns <i>(Outcomes assessors were aware of intervention although validated questionnaires were used)</i>
Domain 5. Bias in selection of the reported result	Risk-of-bias judgement for selection of the reported result	High <i>(Results were reported for each time point for outcomes meeting eligibility criteria for this review but only mean SE was reported and analysis type, sample size and count data where relevant were not reported)</i>

Section	Question	Answer
Overall bias and Directness	Risk of bias judgement	High <i>(High risk of bias due to missing outcome data, deviation from intended intervention and likely bias in selection of reported result)</i>
	Overall Directness	Partially applicable <i>(The population was veterans recruited from an inpatient psychiatry unit in the USA)</i>
	Risk of bias variation across outcomes	Issues linked to missing data were consistent for all reported outcomes

Ougrin, 2011

Bibliographic Reference Ougrin, D.; Zundel, T.; Ng, A.; Banarsee, R.; Bottle, A.; Taylor, E.; Trial of Therapeutic Assessment in London: randomised controlled trial of Therapeutic Assessment versus standard psychosocial assessment in adolescents presenting with self-harm; Archives of Disease in Childhood; 2011; vol. 96; 148-53

Study details

Country/ies where study was carried out	Please see Ougrin 2013
Study type	Please see Ougrin 2013
Study dates	Please see Ougrin 2013
Inclusion criteria	Please see Ougrin 2013
Exclusion criteria	Please see Ougrin 2013
Patient characteristics	Please see Ougrin 2013
Intervention (for all relevant groups)	Please see Ougrin 2013
Duration of follow-up	3 months
Sources of funding	Psychiatry Research Fund; Maudsley Charitable Funds; West London Research Consortium
Results	Attendance of treatment sessions in CAMHS, attendance at first follow-up

<p>(follow-up: 1 month after assessment)</p> <ul style="list-style-type: none"> • Therapeutic assessment: 29/35 • Assessment as usual: 17/35 <p>Attendance of treatment sessions in CAMHS, attended ≥ 4 follow-up sessions (follow-up: 3 months after assessment)</p> <ul style="list-style-type: none"> • Therapeutic assessment: 14/35 • Assessment as usual: 4/35
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Critical appraisal

Section	Question	Answer
Domain 1: Bias arising from the randomisation process	Risk of bias judgement for the randomisation process	Refer to Ougrin, 2013
Domain 2a: Risk of bias due to deviations from the intended interventions (effect of assignment to intervention)	Risk of bias for deviations from the intended interventions (effect of assignment to intervention)	Refer to Ougrin, 2013
Domain 2b: Risk of bias for deviations from the intended interventions (effect of adhering to intervention)	Risk of bias for deviations from the intended interventions (effect of adhering to intervention)	Refer to Ougrin, 2013
Domain 3. Bias due to missing outcome data	Risk-of-bias judgement for missing outcome data	Some concerns <i>(Proportion of participants lost to follow-up similar for each group, but likely that missingness in outcomes data depended on its true value)</i>
Domain 4. Bias in measurement of the outcome	Risk-of-bias judgement for measurement of the outcome	Some concerns <i>(Unclear if outcome assessors were blinded)</i>
Domain 5. Bias in selection of the reported result	Risk-of-bias judgement for selection of the reported result	Low
Overall bias and Directness	Risk of bias judgement	Some concerns <i>(Some concerns of risk of bias due to possible deviations from intervention, possible bias due to participants lost to follow-up and unclear if outcome assessment was blinded)</i>
	Overall Directness	Directly applicable <i>(A UK study in adolescents who have self-harmed)</i>
	Risk of bias variation across	Not applicable

Section	Question	Answer
	outcomes	

Ougrin, 2013

Bibliographic Reference Ougrin, D.; Boege, I.; Stahl, D.; Banarsee, R.; Taylor, E.; Randomised controlled trial of therapeutic assessment versus usual assessment in adolescents with self-harm: 2-year follow-up; Archives of Disease in Childhood; 2013; vol. 98; 772-6

Study details

Country/ies where study was carried out	UK
Study type	Randomised controlled trial (RCT)
Study dates	2007 to 2009
Inclusion criteria	Adolescents aged 12–18 years not currently engaged with psychiatric services who had self-harmed and been referred for a psychosocial assessment. Self-harm was defined as self-injury or self-poisoning irrespective of the underlying intent, in line with British national guidelines
Exclusion criteria	<ul style="list-style-type: none"> • Gross reality distortion (for example, owing to psychotic illness or intoxication) • Known history of moderate or severe learning disability • Lack of fluent English • Immediate risk of violence or suicide • Need for in-patient psychiatric admission
Patient characteristics	<p>Therapeutic assessment:</p> <ul style="list-style-type: none"> • n=35 • Mean age (SD): 15.6 (SD 1.5) years • Sex (female/ male): 28/ 7 • Ethnicity: White n=17; Black n=7; Asian n=7; Mixed n=3; Other n=1 • Comorbidities: Not reported but clinical impression of emotional disorder n=22; disruptive disorder n=4; no mental illness n=9; other n=0 • Duration/history of self-harm: Not reported • Self-harm before the current episode: n=25 • Mean number of suicide attempts (SD): Not reported • Method of self-harm: Self-poisoning n=9; self-injury n=22; both n=4 • Current psychiatric treatment: Not reported but previous contact with mental health services n=25 • Assessment setting: outpatient department n=18; emergency department n=17 <p>Assessment as usual:</p> <ul style="list-style-type: none"> • n=35 • Age years, mean (SD): 15.5 (SD 1.2) • Female/Male n: 28/7 • Ethnicity n: White 20; Black 7; Asian 1; Mixed 6; Other 1

	<ul style="list-style-type: none"> • Comorbidities: Not reported but clinical impression of emotional disorder 20; disruptive disorder 5; no mental illness 8; other 2 • Duration/history of self-harm: Not reported • Self-harm before the current episode: 16 • Number of suicide attempts, mean (SD): Not reported • Method of self-harm n: Self-poisoning 19; self-injury 15; both 1 • Current psychiatric treatment: not reported but previous contact with mental health services n: 28 • Assessment setting n: outpatient department 28; emergency department 7
Intervention (for all relevant groups)	<p>Therapeutic assessment:</p> <p>Standard psychosocial history and risk assessment (approximately 1 hour). Review of information gathered and preparation (10 minutes), followed by a 30 min intervention including: (1) Joint construction of a diagram consisting of: reciprocal roles, core pain and maladaptive procedures; (2) identifying a target problem; (3) considering and enhancing motivation for change; and (4) exploring potential 'exits' (ways of breaking the vicious cycles identified). Describing the diagram and the exits in an 'understanding letter' in addition to the usual assessment letter.</p> <p>Assessment as usual:</p> <p>Standard psychosocial history and risk assessment as per NICE clinical guideline 16. The assessment letter was sent to the relevant community team and a copy was sent to the family in accordance with the Trusts' policies.</p>
Duration of follow-up	24 months
Sources of funding	<ul style="list-style-type: none"> • Psychiatry Research Fund • Maudsley Charitable Funds
Results	<p>Number of adolescents with ≥ 1 A&E presentation with self-harm (follow-up: 24 months after assessment)</p> <ul style="list-style-type: none"> • Therapeutic assessment: 7/35 • Assessment as usual: 9/34 <p>Total recorded self-harm episodes (follow-up: 24 months after assessment)</p> <ul style="list-style-type: none"> • Therapeutic assessment: NR • Assessment as usual: NR • Therapeutic assessment vs assessment as usual: RR 4.78 (95% CI 0.76, 32.65) (controlling for number of days treated) <p>Attendance of treatment sessions in CAMHS (follow-up: 12 months after assessment)</p> <ul style="list-style-type: none"> • Therapeutic assessment: NR • Assessment as usual: NR • Therapeutic assessment vs assessment as usual: incidence rate ratio (IRR) 3.23 (95% CI 1.49, 7.05), $z=2.97$, $p=0.003$ (engagement in treatment was more likely in the therapeutic assessment group in Year 1) <p>Attendance of treatment sessions in CAMHS (follow-up: 24 months after</p>

assessment)
<ul style="list-style-type: none"> • Therapeutic assessment: NR • Assessment as usual: NR • Therapeutic assessment vs assessment as usual: incidence rate ratio (IRR) 1.67 (95% CI 1.22, 2.28), $z=3.22$, $p=0.001$ (engagement in treatment was more likely in the therapeutic assessment group in Year 2) <p>* IRR as reported = how many times greater the attendance of treatment sessions in CAMHS in Year 1 or in Year 2 in the intervention vs the control group</p>

Critical appraisal

Section	Question	Answer
Domain 1: Bias arising from the randomisation process	Risk of bias judgement for the randomisation process	Low
Domain 2a: Risk of bias due to deviations from the intended interventions (effect of assignment to intervention)	Risk of bias for deviations from the intended interventions (effect of assignment to intervention)	Some concerns <i>(No information on deviations from intervention due to experimental context, but ITT analysis used and method used to control for missing data)</i>
Domain 2b: Risk of bias for deviations from the intended interventions (effect of adhering to intervention)	Risk of bias for deviations from the intended interventions (effect of adhering to intervention)	Some concerns <i>(No information on deviations from intervention due to experimental context, but ITT analysis used and method used to control for missing data)</i>
Domain 3. Bias due to missing outcome data	Risk-of-bias judgement for missing outcome data	Some concerns <i>(5 participants lost to follow-up, but not reported separately by group; not clear if these participants would have attended clinic sessions or presented with repeat self-harm)</i>
Domain 4. Bias in measurement of the outcome	Risk-of-bias judgement for measurement of the outcome	Some concerns <i>(Unclear if outcome assessors were blinded)</i>
Domain 5. Bias in selection of the reported result	Risk-of-bias judgement for selection of the reported result	Low
Overall bias and Directness	Risk of bias judgement	Some concerns <i>(Some concerns of risk of bias due to possible deviations from intervention, possible bias due to participants lost to follow-up and unclear if outcome assessment was blinded)</i>

Section	Question	Answer
	Overall Directness	Directly applicable (A UK study in adolescents who have self-harmed)
	Risk of bias variation across outcomes	Not applicable

Pitman, 2020

Bibliographic Reference Pitman, A.; Tsiachristas, A.; Casey, D.; Geulayov, G.; Brand, F.; Bale, E.; Hawton, K.; Comparing short-term risk of repeat self-harm after psychosocial assessment of patients who self-harm by psychiatrists or psychiatric nurses in a general hospital: Cohort study; Journal of affective disorders; 2020; vol. 272; 158-165

Study details

Country/ies where study was carried out	UK
Study type	Prospective cohort study
Study dates	2000 to 2015
Inclusion criteria	Data for presentations to the John Radcliffe Hospital in Oxford following an episode of self-harm over the period 2000 to 2014, with follow-up data until 2015, from the Oxford Monitoring System for Self-harm dataset
Exclusion criteria	<ul style="list-style-type: none"> Patients who died in the ED or during an admission associated with the index presentation Patients assessed by the Oxford University Hospitals (OUH) liaison team established in 2013 (patients admitted to a ward (for example after major trauma) and are all assessed by a senior psychiatrist)
Patient characteristics	<p>Assessment by a psychiatrist:</p> <ul style="list-style-type: none"> n=4159 Mean age (SD): 33.3 (15.5) years Sex (female/ male): 2399/ 1760 Ethnicity: White n=3121; non-White n=332; missing n=706 Comorbidities: Not reported Duration/ history of self-harm: Not reported Self-harm before the current episode: n=2020 (presenting and not presenting) Mean number of suicide attempts (SD): Not reported Method of self-harm: self-poisoning only n=3196; self-cutting n=417; other self-injury n=231; mixed methods of self-harm n=315; missing n=0 Current psychiatric treatment: Not reported Assessment setting: Not reported. Note that study assessed hospital presentation <p>Assessment by a psychiatric nurse:</p> <ul style="list-style-type: none"> n=5485

	<ul style="list-style-type: none"> • Mean age (SD): 30.3 (15.1) years • Sex (female/ male): 3487/ 1998 • Ethnicity: White n=4203; non-White n=379; missing n=903 • Comorbidities: Not reported • Duration/ history of self-harm: Not reported • Self-harm before the current episode: n=2693 (presenting and not presenting) • Mean number of suicide attempts (SD): Not reported • Method of self-harm: self-poisoning only n=4691; self-cutting n=288; other self-injury n=126; mixed methods of self-harm n=380; missing n=0 • Current psychiatric treatment: Not reported • Assessment setting: Not reported. Note that study assessed hospital presentation
Intervention (for all relevant groups)	<p>Psychosocial assessment - assessed by psychiatric nurse (During the assessment data on method of self-harm, time of presentation, any previous self-harm, psychiatric diagnosis, and any aftercare arrangements appeared to be collected but no further detail in respect of the assessment reported.)</p> <p>Psychosocial assessment - assessed by psychiatrist (During the assessment, data on method of self-harm, time of presentation, any previous self-harm, psychiatric diagnosis, and any aftercare arrangements appeared to be collected but no further detail in respect of the assessment reported.)</p>
Duration of follow-up	12 months
Sources of funding	<ul style="list-style-type: none"> • Author supported by a Royal College of Psychiatrists Faculty of General Adult Psychiatry Small Project Funding grant. • Oxford Monitoring System for Self-harm is supported through funding for the Multicentre Study of Self-harm in England from the Department of Health and Social Care (DHSC), including the Policy Research Programme
Results	<p>Repeat self-harm presentation within 12 months after assessment</p> <ul style="list-style-type: none"> • n=7692 index and all subsequent presentations assessed by psychiatrist • n=9318 index and all subsequent presentations assessed by psychiatric nurse <p>Assessed by a psychiatrist vs assessed by a psychiatric nurse:</p> <ul style="list-style-type: none"> • OR 1.06 (95% CI 0.99, 1.13) (unadjusted) • OR 1.05 (95% CI 0.98, 1.13) (adjusted)* • OR 1.06 (95% CI 0.99, 1.14) (adjusted)** <p>* Adjusted odds ratio: multivariable model adjusted a priori for age at presentation, method of self-harm, hour of presentation, and year of presentation.</p> <p>** Adjusted odds ratio: multivariable model adjusted a priori for age at presentation, method of self-harm, hour of presentation, and year of presentation plus aftercare. Aftercare was defined as psychiatric admission, NHS psychiatric community care (day hospital, crisis team, outpatient), non-NHS community-based services, and discharge to general practitioner care alone.)</p>

Critical appraisal

Section	Question	Answer
1. Bias due to confounding	Risk of bias judgement for confounding	Serious <i>(A priori confounders only reported post assessment. No information reported on controlling for confounders at baseline)</i>
2. Bias in selection of participants into the study	Risk of bias judgement for selection of participants into the study	Moderate <i>(Likely that all eligible participants were included, but unclear if start of follow up and start of intervention coincided for all participants)</i>
3. Bias in classification of interventions	Risk of bias judgement for classification of interventions	Low
4. Bias due to deviations from intended interventions	Risk of bias judgement for deviations from intended interventions	Low
5. Bias due to missing data	Risk of bias judgement for missing data	Low
6. Bias in measurement of outcomes	Risk of bias judgement for measurement of outcomes	Low
7. Bias in selection of the reported result	Risk of bias judgement for selection of the reported result	Low
Overall bias	Risk of bias judgement	Serious <i>(Serious risk of bias due to lack of measurement of baseline confounders)</i>
	Risk of bias variation across outcomes	None
	Directness	Directly applicable <i>(A UK study in a population who have self-harmed)</i>

Appendix E Forest plots

Forest plots for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

There are no forest plots for this review as no meta-analyses were conducted.

Appendix F Modified GRADE tables

Modified GRADE tables for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

Table 5: Evidence profile for comparison between therapeutic assessment and assessment as usual

Quality assessment						Number of patients		Effect		Quality	Importance
Number of studies	Design	Risk of bias	Inconsistency	Indirectness	Other considerations	Therapeutic assessment	Assessment as usual	Relative (95% CI)	Absolute		
Number of adolescents with ≥1 A&E presentation with self-harm (follow-up: 24 months)											
1 (Ougrin 2013)	RCT	serious ¹	no serious inconsistency	no serious indirectness	none	7/35	9/34	RR 0.76 (0.32, 1.80)	64 fewer per 1,000 (from 180 fewer to 212 more)	MODERATE	CRITICAL
Total recorded self-harm episodes (follow-up: 24 months)											
1 (Ougrin 2013)	RCT	very serious ²	no serious inconsistency	no serious indirectness	none	Not reported	Not reported	RR 4.78 (0.76, 32.65) ³	Not estimable	LOW	CRITICAL
Attendance of treatment sessions in CAMHS, attendance at first follow-up (follow-up: 1 month)											
1 (Ougrin 2011)	RCT	serious ¹	no serious inconsistency	no serious indirectness	none	29/35	17/35	RR 1.71 (1.18, 2.48)	345 more per 1,000 (from 87 more to 719 more)	MODERATE	IMPORTANT
Attendance of treatment sessions in CAMHS, attended ≥4 follow-up sessions (follow-up: 3 months)											
1 (Ougrin 2011)	RCT	serious ¹	no serious inconsistency	no serious indirectness	none	14/35	4/35	RR 3.50 (1.28, 9.59)	286 more per 1,000 (from 32 more to 982 more)	MODERATE	IMPORTANT

Quality assessment						Number of patients		Effect		Quality	Importance
Number of studies	Design	Risk of bias	Inconsistency	Indirectness	Other considerations	Therapeutic assessment	Assessment as usual	Relative (95% CI)	Absolute		
										more)	
Attendance of treatment sessions in CAMHS (follow-up: 12 months)											
1 (Ougrin 2011)	RCT	very serious ²	no serious inconsistency	no serious indirectness	none	Not reported	Not reported	IRR 3.23 (1.49, 7.05) ⁴ (favouring Therapeutic assessment)	Not estimable	LOW	IMPORTANT
Attendance of treatment sessions in CAMHS (follow-up: 24 months)											
1 (Ougrin 2011)	RCT	very serious ²	no serious inconsistency	no serious indirectness	none	Not reported	Not reported	IRR 1.67 (1.22, 2.28) ⁴ (favouring Therapeutic assessment)	Not estimable	LOW	IMPORTANT

CAMHS, community and mental health services; CI, confidence interval; IRR, incidence rate ratio; RR, relative risk

1 Serious risk of bias in the evidence contributing to the outcomes

2 Very serious risk of bias in the evidence contributing to the outcomes

3 Number of self-harm episodes per study group not reported, RR and 95% CI as reported in the study

4 Attendance at follow-up visit per study group not reported, IRR and 95% CI as reported in the study (how many times greater the attendance of treatment sessions in CAMHS in Year 1 or in Year 2 in the intervention vs the control group)

Table 6: Evidence profile for comparison between suicide Status Form Assessment Group Therapy and Usual Assessment Group Therapy

Quality assessment						Number of patients		Effect		Quality	Importance
Number of studies	Design	Risk of bias	Inconsistency	Indirectness	Other considerations	SSF-AGT	UAGT	Relative (95% CI)	Absolute		

Quality assessment						Number of patients		Effect		Quality	Importance
Number of studies	Design	Risk of bias	Inconsistency	Indirectness	Other considerations	SSF-AGT	UAGT	Relative (95% CI)	Absolute		
Satisfaction with mental health care (follow up: 3 months; assessed with: Client Satisfaction Questionnaire (CSQ); Scale from: 1 to 32)											
1 (Johnson 2018)	RCT	very serious ¹	no serious inconsistency	serious ²	none	65	69	-	MD 0.84 higher (0.56 lower to 2.24 higher)	VERY LOW	CRITICAL
Overall symptom distress (follow up: 1 months; assessed with: Outcome Questionnaire 45.2; Scale from: 0 to 100)											
1 (Johnson 2018)	RCT	very serious ¹	no serious inconsistency	serious ²	none	65	69	-	MD 0.6 higher (6.09 lower to 7.29 higher)	VERY LOW	IMPORTANT
Overall symptom distress (follow up: 3 months; assessed with: Outcome Questionnaire 45.2; Scale from: 0 to 100)											
1 (Johnson 2018)	RCT	very serious ¹	no serious inconsistency	serious ²	none	65	69	-	MD 4.53 higher (2.51 lower to 11.57 higher)	VERY LOW	IMPORTANT
Number of weekly group sessions attended during follow-up – 1 month follow-up											
1 (Johnson 2018)	RCT	very serious ¹	no serious inconsistency	serious ²	none	65	69	-	MD 0.13 lower (0.66 lower to 0.4 higher)	VERY LOW	IMPORTANT
Number of weekly group sessions attended during follow-up – 3 months follow-up											
1 (Johnson 2018)	RCT	very serious ¹	no serious inconsistency	serious ²	none	65	69	-	MD 0.6 lower (2.06 lower to 0.86 higher)	VERY LOW	IMPORTANT

CI = confidence interval; MD = mean difference; SD = standard deviation; SE = standard error; SSF-AGT = suicide status form assessment group therapy; UAGT = usual assessment group therapy

1 Very serious risk of bias in the evidence contributing to the outcomes

2 Population was very indirect due to the study being conducted in veterans recently discharged from an inpatient psychiatry setting and the study was conducted in a non-UK setting

Table 7: Evidence profile for comparison between assessment by psychiatrist and assessment by psychiatric nurse

Quality assessment						Number of patients		Effect		Quality	Importance
Number of studies	Design	Risk of bias	Inconsistency	Indirectness	Other considerations	Assessment by Psychiatrist	Assessment by Psychiatric Nurse	Relative (95% CI)	Absolute		
Repeat self-harm presentation within 12 months											
1 (Pitman 2020)	Observational study	very serious ¹	no serious inconsistency	no serious indirectness	none	7692 episodes in 5485 patients ²	9318 episodes in 4159 patients ²	OR 1.06 (0.99, 1.13) ³	14 more per 1000 (from 2 fewer to 30 more)	LOW	CRITICAL
1 (Pitman 2020)	Observational study	very serious ¹	no serious inconsistency	no serious indirectness	none	7692 episodes in 5485 patients ²	9318 episodes in 4159 patients ²	OR 1.05 (0.98, 1.13) ⁴	12 more per 1000 (from 5 fewer to 30 more)	LOW	CRITICAL
1 (Pitman 2020)	Observational study	very serious ¹	no serious inconsistency	no serious indirectness	none	7692 episodes in 5485 patients ²	9318 episodes in 4159 patients ²	OR 1.06 (0.99, 1.14) ⁵	14 more per 1000 (from 2 fewer to 32 more)	LOW	CRITICAL

CI = confidence interval; OR = odds ratio

1 Serious risk of bias in the evidence contributing to the outcomes

2 Number of individuals with repeat self-harm episodes per arm were not reported, but the number of index and subsequent episodes assessed by a psychiatrist or psychiatric nurse was reported and are listed here. These data were used by the authors to calculate the reported ORs. The total N for each arm has been used. The RR has been calculated based on the number of episodes reported per study group (assessed by psychiatrist 7692/17010 (45%) episodes and Total patients assessed by doctor or nurse N = 9644. Total episodes assessed N=17,010. Episodes assessed by psychiatrist n=7692 in and episodes assessed by psychiatric nurse, n=9318. Note patients with repeat episodes not reported.

3 OR (95% CI) as reported in the publication. Unadjusted odds ratio

4 OR (95% CI) as reported in the publication. Adjusted odds ratio: multivariable model adjusted a priori for age at presentation, method of self-harm, hour of presentation, and year of presentation

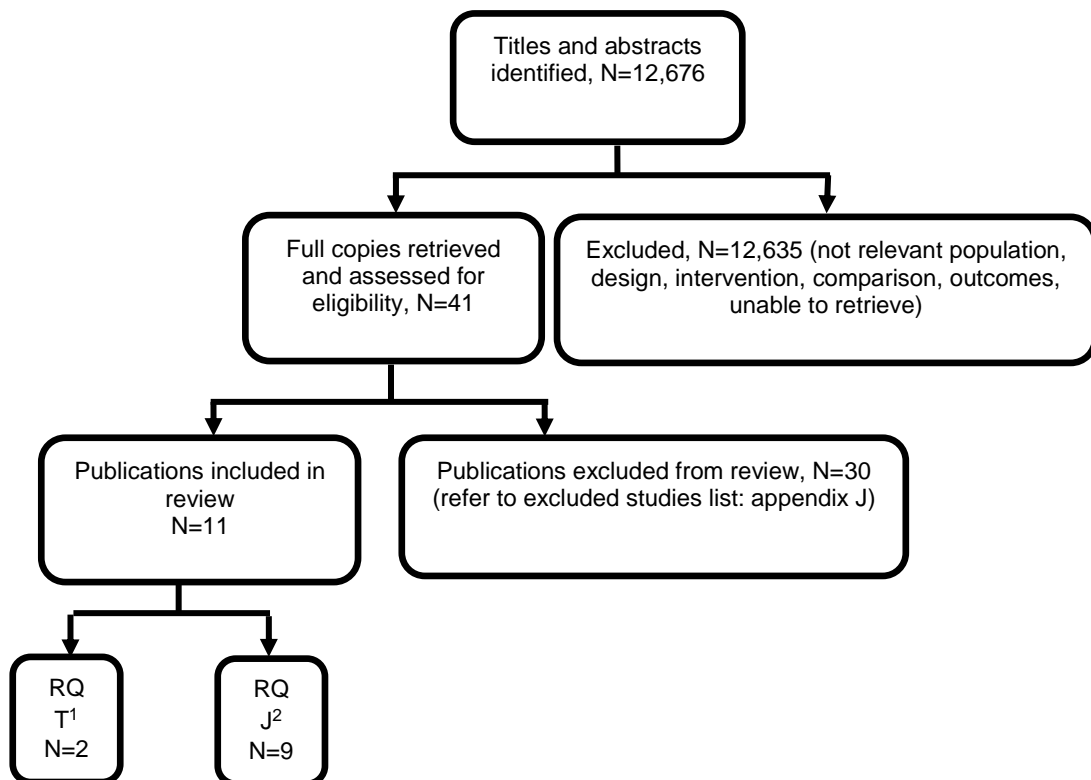
5 OR (95% CI) as reported in the publication. Adjusted odds ratio: multivariable model adjusted a priori for age at presentation, method of self-harm, hour of presentation, and year of presentation **plus** aftercare. Aftercare was defined as psychiatric admission, NHS psychiatric community care (day hospital, crisis team, outpatient), non-NHS community-based services, and discharge to general practitioner care alone.

Appendix G Economic evidence study selection

Study selection for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

A global health economics search was undertaken for all areas covered in the guideline. Figure 2 shows the flow diagram of the selection process for economic evaluations of interventions and strategies associated with the care of people who have self-harmed.

Figure 2: Flow diagram of economic article selection for global health economic search



Abbreviations: RQ: Research question

Notes:

1 What are the most effective models of care for people who have self-harmed?

2 What psychological and psychosocial interventions (including safety plans and electronic health-based interventions) are effective for people who have self-harmed?

Appendix H Economic evidence tables

Economic evidence tables for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

No evidence was identified which was applicable to this review question.

Appendix I Economic model

Economic model for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

No economic analysis was conducted for this review question.

Appendix J Excluded studies

Excluded studies for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

Excluded effectiveness studies

Table 8: Excluded studies and reasons for their exclusion

Study	Code [Reason]
(2016) Assessing Suicide Risk in the Emergency Department. <i>Journal of Psychosocial Nursing & Mental Health Services</i> 54: 18-18	- Narrative review
(2016) New Tablet-Based Suicide Risk Assessment Tool Replicates Psychiatrists' Expertise. <i>Journal of Psychosocial Nursing & Mental Health Services</i> 54: 58-58	- Narrative review
Abarca, C., Gheza, C., Coda, C. et al. (2018) Literature review to identify standardized scales for assessing adult suicide risk in the primary health care setting. <i>Medwave</i> 18: e7246	- Systematic review <i>Included studies checked for relevance.</i>
Adrian, Molly (2018) 1.3 The Collaborative Assessment and Management of Suicidality: Application and Adaptations With Youth. <i>Journal of the American Academy of Child & Adolescent Psychiatry</i> 57: S2-S2	- Published as abstract only
Ali, A. and Hassiotis, A. (2006) Deliberate self-harm and assessing suicidal risk. <i>British Journal of Hospital Medicine</i> 67: M212-M213	- Narrative review
Anonymous (2011) Suicide assessment team in the ED. <i>Hospital Peer Review</i> 36: 30-1	- Narrative review
Antai-Otong, D. (2016) What Every ED Nurse Should Know About Suicide Risk Assessment. <i>Journal of Emergency Nursing</i> 42: 31-6	- Narrative review
Arias, S. A., Zhang, Z., Hillerns, C. et al. (2014) Using structured telephone follow-up assessments to improve suicide-related adverse event detection. <i>Suicide & Life-Threatening Behavior</i> 44: 537-47	- Comparison not in PICO <i>Comparison of different methods of detection of adverse events during treatment as usual</i>
Betz, M. E., Kautzman, M., Segal, D. L. et al. (2018) Frequency of lethal means assessment among emergency department patients with a positive suicide risk screen. <i>Psychiatry Research</i> 260: 30-35	- Comparison not in PICO <i>Compares patients with / without assessment</i>
Bland, Phillip (2018) Assessing suicide and self-harm risk in adolescents. <i>Practitioner</i> 262: 10-10	- Analyses not in PICO <i>No mention of assessment</i>
Carter, T., Walker, G. M., Aubeeluck, A. et al. (2019) Assessment tools of immediate risk of self-harm and suicide in children and young people: A scoping review. <i>Journal of Child Health Care</i> 23: 178-199	- Comparison not in PICO <i>Scoping review of assessment tools for use in self-harm, but not of studies comparing assessment methods</i>

Study	Code [Reason]
Chu, C., Van Orden, K. A., Ribeiro, J. D. et al. (2017) Does the timing of suicide risk assessments influence ratings of risk severity?. Professional psychology: research & practice 48: 107-114	- Population not in PICO <i>Mixed population [33.1% had a history of suicide attempt(s), 16.6% had a history of self-harm]; results not presented separately for target population</i>
Clibbens, N. (2019) Primary care suicide screening: the importance of comprehensive clinical assessment. Evidence based nursing. 05	- Narrative review
Cochrane-Brink, K. A.; Lofchy, J. S.; Sakinofsky, I. (2000) Clinical rating scales in suicide risk assessment. General Hospital Psychiatry 22: 445-51	- Study conducted pre-2000
Costanza, A., Amerio, A., Radomska, M. et al. (2020) Suicidality Assessment of the Elderly With Physical Illness in the Emergency Department. Frontiers in Psychiatry 11 (no pagination)	- Narrative review
Crowder, R., Van der Putt, R., Ashby, C. A. et al. (2004) Deliberate self-harm patients who discharge themselves from the general hospital without adequate psychosocial assessment. Crisis: Journal of Crisis Intervention & Suicide 25: 183-6	- Intervention not in PICO <i>Study does not compare two models of assessment</i>
Cwik, M. F.; O'Keefe, V. M.; Haroz, E. E. (2020) Suicide in the pediatric population: screening, risk assessment and treatment. International Review of Psychiatry 32: 254-264	- Narrative review
Davoren, M., Byrne, O., O'Connell, P. et al. (2015) Factors affecting length of stay in forensic hospital setting: need for therapeutic security and course of admission. BMC Psychiatry 15: 301	- Population not in PICO <i>Population did not include people who have self-harmed</i>
de Chenu, Linda (2011) Working with Suicidal Individuals: A Guide to Providing Understanding Assessment and Support. British Journal of Social Work 41: 1615-1616	- Narrative review
DeVylder, J. E., Ryan, T. C., Cwik, M. et al. (2019) Assessment of Selective and Universal Screening for Suicide Risk in a Pediatric Emergency Department. JAMA Network Open 2: e1914070	- Population not in PICO <i>Population not people who have self-harmed. People with behavioural or psychiatric or medical presenting problems without self-harm assessed for future risk</i>
Ellis, Thomas E. (2011) Preventing patient suicide: clinical assessment and management. Journal of Psychiatric Practice 17: 447-448	- Narrative review
Ellis, Thomas E., Rufino, Katrina A., Allen, Jon G. et al. (2015) Impact of a suicide-specific intervention within inpatient psychiatric care: The Collaborative Assessment and Management of Suicidality. Suicide and Life-Threatening Behavior 45: 556-566	- Population not in PICO <i>Population did not include people who have self-harmed</i>
Franks, M., Cramer, R. J., Cunningham, C. A. et al. (2020) Psychometric assessment of two suicide screeners when used under routine conditions in military outpatient treatment programs. Psychological services. 02	- Population not in PICO <i>Active-duty military personnel in mental health or substance abuse</i>

Study	Code [Reason]
	<i>treatment at a military hospital. Unclear how many had self-harmed</i>
Frierson, R. L. (2007) The suicidal patient: risk assessment, management, and documentation. <i>Psychiatric Times</i> 24: 29-32	- Narrative review
Gerson, Ruth and Feuer, Vera (2018) Innovations in Emergency Assessment and Management of Suicide Risk. <i>Journal of the American Academy of Child & Adolescent Psychiatry</i> 57: S32-S32	- Published as abstract only
Greydanus, Donald E. and Pratt, Helen D. (2015) Predicting, Assessing, and Treating Self-Harm in Adolescents. <i>Psychiatric Times</i> 32: 1-5	- Narrative review
Harris, K. M. and Goh, M. T. T. (2016) Is suicide assessment harmful to participants? Findings from a randomized controlled trial. <i>International Journal of Mental Health Nursing</i>	- Population not in PICO <i>Population not people who have self-harmed (Singapore residents ≥18 years of age, adequate English language skills, and not currently in psychiatric treatment)</i>
Hawton, K. (2003) Psychiatric assessment and management of deliberate self-poisoning patients. <i>Medicine (13573039)</i> 31: 16-7]	- Narrative review
Huth-Bocks, A. C., Kerr, D. C. R., Ivey, A. Z. et al. (2007) Assessment of psychiatrically hospitalized suicidal adolescents: self-report instruments as predictors of suicidal thoughts and behavior. <i>Journal of the American Academy of Child & Adolescent Psychiatry</i> 46: 387-395	- Population not in PICO <i>54% had previous suicide attempt, but unclear about other self-harm. Results not reported separately for target population</i>
Johnson, L. L., O'Connor, S. S., Kaminer, B. et al. (2019) Evaluation of Structured Assessment and Mediating Factors of Suicide-Focused Group Therapy for Veterans Recently Discharged from Inpatient Psychiatry. <i>Archives of Suicide Research</i> 23: 15-33	- Duplicate
Joiner, T. E. and Ribeiro, J. D. (2011) Assessment and management of suicidal behavior in children and adolescents. <i>Pediatric Annals</i> 40: 319-324	- Narrative review
Kapusta, Nestor D. (2012) Non-suicidal Self-injury and Suicide Risk Assessment, quo vadis DSM-V?. <i>Suicidology Online</i> 3: 1-3	- Narrative review
Kishi, Y. and Kathol, R. G. (2002) Assessment of patients who attempt suicide. <i>Primary Care Companion to the Journal of Clinical Psychiatry</i> 4: 132-136	- Narrative review
Kollmann, B., Darwiesh, T., Tuscher, O. et al. (2020) The Importance of Assessing Mental Health Issues and Preventing Suicidality in Studies on Healthy Participants. <i>American Journal of Bioethics</i> 20: 75-77	- Population not in PICO <i>Healthy participants</i>
Large, M. M. (2010) No evidence for improvement in the accuracy of suicide risk assessment. <i>Journal of Nervous and Mental Disease</i> 198: 604	- Letter to editor

Study	Code [Reason]
Large, M. and Ryan, C. (2014) Suicide risk assessment: Myth and reality. <i>International Journal of Clinical Practice</i> 68: 679-681	- Narrative review
Large, Matthew Michael (2016) What Every ED Nurse Should Know About Suicide Risk Assessment. <i>JEN: Journal of Emergency Nursing</i> 42: 199-200	- Letter to editor
Lindh, A. U., Beckman, K., Carlborg, A. et al. (2020) Predicting suicide: A comparison between clinical suicide risk assessment and the Suicide Intent Scale. <i>Journal of Affective Disorders</i> 263: 445-449	- Comparison not in PICO <i>All participants received both assessment tools. (Analysis was on suicide within 12 months of index assessment and included only participants that had both a clinical risk assessment and suicide intent scale risk score. The focus of the analysis was the accuracy of each in the prediction of suicide risk)</i>
Maheshwari, R. and Joshi, P. (2012) Assessment, referral, and treatment of suicidal adolescents. <i>Pediatric Annals</i> 41: 516-521	- Narrative review
Marfe, E. (2003) Assessing risk following deliberate self-harm. <i>Paediatric Nursing</i> 15: 32-4	- Non-comparative study
Martin, G. and Brown, S. (2020) Psychiatric assessment of self-poisoning. <i>Medicine (United Kingdom)</i> 48: 173-175	- Narrative review
McAllister, M. (2011) Assessment following self-harm: Nurses provide comparable risk assessment to psychiatrists but are less likely to admit for in-hospital treatment. <i>Evidence-Based Nursing</i> 14: 83-84	- Narrative review
Molero, P., Grunebaum, M. F., Galfalvy, H. C. et al. (2014) Past suicide attempts in depressed inpatients: clinical versus research assessment. <i>Archives of Suicide Research</i> 18: 50-7	- Population not in PICO <i>Mixed population [18-24/50 participants reported prior suicide attempt; no information about self-harm]; results not presented separately for target population</i>
Mott, J. (2011) Suicide assessment in the school setting. <i>NASN school nurse</i> 26: 102-8	- Narrative review
Murphy, Andrea L., Gardner, David M., Chen, Timothy F. et al. (2015) Community pharmacists and the assessment and management of suicide risk. <i>Canadian Pharmacists Journal</i> 148: 171-175	- Narrative review
Oquendo, M. A. and Bernanke, J. A. (2017) Suicide risk assessment: tools and challenges. <i>World Psychiatry</i> 16: 28-29	- Narrative review
Ospina-Pinillos, L., Davenport, T., Iorfino, F. et al. (2018) Using New and Innovative Technologies to Assess Clinical Stage in Early Intervention Youth Mental Health Services: Evaluation Study. <i>Journal of Medical Internet Research</i> 20: e259	- Population not in PICO <i>Mixed population [35/72 participants reported self-harm]; results not presented separately for target</i>

Study	Code [Reason]
	<i>population</i>
Ougrin, D.; Ng, A. V.; Low, J. (2008) Therapeutic assessment based on cognitive - Analytic therapy for young people presenting with self-harm: Pilot study. <i>Psychiatric Bulletin</i> 32: 423-426	- Non-randomised study, N<100 in at least one group
Phillips, J. (2004) Risk assessment and management of suicide and self-harm: within a forensic learning disability setting. <i>Learning Disability Practice</i> 7: 12-18	- Narrative review
Pistorello, J., Jobes, D. A., Gallop, R. et al. (2020) A Randomized Controlled Trial of the Collaborative Assessment and Management of Suicidality (CAMS) Versus Treatment as Usual (TAU) for Suicidal College Students. <i>Archives of Suicide Research</i>	- Intervention not in PICO <i>'Collaborative Assessment and Management of Suicidality' versus 'treatment as usual'</i>
Randall, J. R.; Colman, I.; Rowe, B. H. (2011) A systematic review of psychometric assessment of self-harm risk in the emergency department. <i>Journal of Affective Disorders</i> 134: 348-55	- Systematic review <i>Included studies checked for relevance</i>
Randall, J. R., Sareen, J., Chateau, D. et al. (2019) Predicting Future Suicide: Clinician Opinion versus a Standardized Assessment Tool. <i>Suicide & Life-Threatening Behavior</i> 49: 941-951	- Population not in PICO <i>Consecutive adult referrals to psychiatric services with no exclusion criteria. Unclear how many had self-harmed</i>
Rao, S., Broadbear, J. H., Thompson, K. et al. (2017) Evaluation of a novel risk assessment method for self-harm associated with Borderline Personality Disorder. <i>Australasian Psychiatry</i> 25: 460-465	- Population not in PICO <i>Population was not people who had self-harmed. Physician assessment of case vignettes describing a fictional patient</i>
Reid, J. M., Storch, E. A., Murphy, T. K. et al. (2010) Development and psychometric evaluation of the treatment-emergent activation and suicidality assessment profile. <i>Child & Youth Care Forum</i> 39: 113-124	- Population not in PICO <i>Children who exhibited one of the following psychiatric disorders: OCD; major depression; generalized anxiety disorder; social phobia; or separation anxiety disorder. Unclear how many had self-harmed</i>
Reshetukha, T. R., Alavi, N., Prost, E. et al. (2018) Improving suicide risk assessment in the emergency department through physician education and a suicide risk assessment prompt. <i>General Hospital Psychiatry</i> 52: 34-40	- Comparison not in PICO <i>No comparison of assessment methods</i>
Ronquillo, L., Minassian, A., Vilke, G. M. et al. (2012) Literature-based recommendations for suicide assessment in the emergency department: a review. <i>Journal of Emergency Medicine</i> 43: 836-42	- Narrative review <i>Case reports and narrative literature review. Does not compare assessment methods or models</i>
Rudd, Kimberly Butterfly, Breen, Robert, Srinivasan, Shilpa et al. (2019) SUICIDE IN LATE-LIFE: COLLABORATIVE APPROACHES FOR ASSESSMENT, PREVENTION, AND TREATMENT: Session	- Published as abstract only

Study	Code [Reason]
202. American Journal of Geriatric Psychiatry 27: S13-S14	
Russell, J. and Mitchell, J. R. (2000) The assessment of a "nurse led" deliberate selfharm service. Health Bulletin 58: 221-3	- Non-comparative study
Simon, Robert I. (2011) Improving Suicide Risk Assessment. Psychiatric Times 28: 16-21	- Narrative review
Smith, E. M. (2018) Suicide risk assessment and prevention. Nursing Management 49: 22-30	- Narrative review
Stewart, S. Evelyn; Manion, I. G.; Davidson, S. (2002) Emergency management of the adolescent suicide attempter: A review of the literature. Journal of Adolescent Health 30: 312-325	- Study conducted pre-2000
Targum, S. D.; Friedman, F.; Pacheco, M. N. (2014) Assessment of suicidal behavior in the emergency department. Innovations in Clinical Neuroscience 11: 194-200	- Narrative review
Valente, S. M. (2010) Assessing patients for suicide risk. Nursing 40: 36-40; quiz 40	- Narrative review
Waern, M.; Dombrovski, A. Y.; Szanto, K. (2011) Is the proposed DSM-V Suicide Assessment Dimension suitable for seniors?. International Psychogeriatrics 23: 671-672	- Letter to editor
Ward-Ciesielski, E. F. and Wilks, C. R. (2020) Conducting Research with Individuals at Risk for Suicide: Protocol for Assessment and Risk Management. Suicide & life-threatening behavior 50: 461-471	- Population not in PICO <i>Suicidal adults using or not using alcohol to regulate emotions. Do not appear to have self-harmed</i>
Weston, S. N. (2003) Comparison of the assessment by doctors and nurses of deliberate self-harm. Psychiatric Bulletin 27: 57-60	- Outcomes not in PICO <i>Outcomes are clinician referral decisions</i>
Witt, K., Spittal, M. J., Carter, G. et al. (2017) Effectiveness of online and mobile telephone applications ('apps') for the self-management of suicidal ideation and self-harm: a systematic review and meta-analysis. BMC Psychiatry 17: 297	- Intervention not in PICO <i>Interventions for self-harm were not related to assessment but management of self-harm</i>

Excluded economic studies

Table 9: Excluded studies from the guideline economic review

Study	Reason for Exclusion
Adrian, M., Lyon, A. R., Nicodimos, S., Pullmann, M. D., McCauley, E., Enhanced "Train and Hope" for Scalable, Cost-Effective Professional Development in Youth Suicide Prevention, Crisis, 39, 235-246, 2018	Not relevant to any of the review questions in the guideline - this study examined the impact of an educational training ongoing intervention, and the effect of the post-training reminder system, on mental health practitioners' knowledge, attitudes, and behaviour surrounding suicide assessment and intervention. As well, this study was not a full health economic evaluation
Borschmann R, Barrett B, Hellier JM, et al. Joint crisis plans for people with borderline personality	Not relevant to any of the review questions in the guideline - this study examined the feasibility

Study	Reason for Exclusion
disorder: feasibility and outcomes in a randomised controlled trial. Br J Psychiatry. 2013;202(5):357-364.	of recruiting and retaining adults with borderline personality disorder to a pilot randomised controlled trial investigating the potential efficacy and cost-effectiveness of using a joint crisis plan
Bustamante Madsen, L., Eddleston, M., Schultz Hansen, K., Konradsen, F., Quality Assessment of Economic Evaluations of Suicide and Self-Harm Interventions, Crisis, 39, 82-95, 2018	Study design - this review of health economics studies has been excluded for this guideline, but its references have been hand-searched for any relevant health economic study
Byford, S., Barrett, B., Aglan, A., Harrington, V., Burroughs, H., Kerfoot, M., Harrington, R. C., Lifetime and current costs of supporting young adults who deliberately poisoned themselves in childhood and adolescence, Journal of Mental Health, 18, 297-306, 2009	Study design – no comparative cost analysis
Byford, S., Leese, M., Knapp, M., Seivewright, H., Cameron, S., Jones, V., Davidson, K., Tyrer, P., Comparison of alternative methods of collection of service use data for the economic evaluation health care interventions, Health Economics, 16, 531-536, 2007	Study design – no comparative cost analysis
Byford, Sarah, Barber, Julie A., Harrington, Richard, Barber, Baruch Beautrais Blough Brent Brodie Byford Carlson Chernoff Collett Fergusson Garland Goldberg Harman Harrington Hawton Huber Kazdin Kerfoot Knapp Lindsey McCullagh Miller Netten Reynolds Sadowski Shaffer Simms Wu, Factors that influence the cost of deliberate self-poisoning in children and adolescents, Journal of Mental Health Policy and Economics, 4, 113-121, 2001	Study design – no comparative cost analysis
Denchev, P., Pearson, J. L., Allen, M. H., Claassen, C. A., Currier, G. W., Zatzick, D. F., Schoenbaum, M., Modeling the cost-effectiveness of interventions to reduce suicide risk among hospital emergency department patients, Psychiatric Services, 69, 23-31, 2018	Not relevant to any of the review questions in the guideline - this study estimated the cost-effectiveness of outpatient interventions (Postcards, Telephone outreach, Cognitive Behaviour Therapy) to reduce suicide risk among patients presenting to general hospital emergency departments
Dunlap, L. J., Orme, S., Zarkin, G. A., Arias, S. A., Miller, I. W., Camargo, C. A., Sullivan, A. F., Allen, M. H., Goldstein, A. B., Manton, A. P., Clark, R., Boudreaux, E. D., Screening and Intervention for Suicide Prevention: A Cost-Effectiveness Analysis of the ED-SAFE Interventions, Psychiatric services (Washington, D.C.), appips201800445, 2019	Not relevant to any of the review questions in the guideline - this study estimated the cost-effectiveness of suicide screening followed by an intervention to identify suicidal individuals and prevent recurring self-harm
Fernando, S. M., Reardon, P. M., Ball, I. M., van Katwyk, S., Thavorn, K., Tanuseputro, P., Rosenberg, E., Kyeremanteng, K., Outcomes and Costs of Patients Admitted to the Intensive Care Unit Due to Accidental or Intentional Poisoning, Journal of Intensive Care Medicine, 35, 386-393, 2020	Study design – no comparative cost analysis
Flood, C., Bowers, L., Parkin, D., Estimating the costs of conflict and containment on adult acute inpatient psychiatric wards, Nursing economic\$, 26, 325-330, 324, 2008	Study design – no comparative cost analysis

Study	Reason for Exclusion
Fortune, Z., Barrett, B., Armstrong, D., Coid, J., Crawford, M., Mudd, D., Rose, D., Slade, M., Spence, R., Tyrer, P., Moran, P., Clinical and economic outcomes from the UK pilot psychiatric services for personality-disordered offenders, <i>International Review of Psychiatry</i> , 23, 61-9, 2011	Not relevant to any of the review questions in the guideline
George, S., Javed, M., Hemington-Gorse, S., Wilson-Jones, N., <i>Epidemiology and financial implications of self-inflicted burns</i> , <i>Burns</i> , 42, 196-201, 2016	Study design – no comparative cost analysis
Gunnell, D., Shepherd, M., Evans, M., Are recent increases in deliberate self-harm associated with changes in socio-economic conditions? An ecological analysis of patterns of deliberate self-harm in Bristol 1972-3 and 1995-6, <i>Psychological medicine</i> , 30, 1197-1203, 2000	Study design - cost-of-illness study
Kapur, N., House, A., Dodgson, K., Chris, M., Marshall, S., Tomenson, B., Creed, F., Management and costs of deliberate self-poisoning in the general hospital: A multi-centre study, <i>Journal of Mental Health</i> , 11, 223-230, 2002	Study design – no comparative cost analysis
Kapur, N., House, A., May, C., Creed, F., Service provision and outcome for deliberate self-poisoning in adults - Results from a six centre descriptive study, <i>Social Psychiatry and Psychiatric Epidemiology</i> , 38, 390-395, 2003	Study design – no comparative cost analysis
Kinchin, I., Russell, A. M. T., Byrnes, J., McCalman, J., Doran, C. M., Hunter, E., The cost of hospitalisation for youth self-harm: differences across age groups, sex, Indigenous and non-Indigenous populations, <i>Social Psychiatry and Psychiatric Epidemiology</i> , 55, 425-434, 2020	Study design – no comparative cost analysis
O'Leary, F. M., Lo, M. C. I., Schreuder, F. B., "Cuts are costly": A review of deliberate self-harm admissions to a district general hospital plastic surgery department over a 12-month period, <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 67, e109-e110, 2014	Study design – no comparative cost analysis
Olfson, M., Gameroff, M. J., Marcus, S. C., Greenberg, T., Shaffer, D., National trends in hospitalization of youth with intentional self-inflicted injuries, <i>American Journal of Psychiatry</i> , 162, 1328-1335, 2005	Study design – no comparative cost analysis
Ostertag, L., Golay, P., Dorogi, Y., Brovelli, S., Cromec, I., Edan, A., Barbe, R., Saillant, S., Michaud, L., Self-harm in French-speaking Switzerland: A socio-economic analysis (7316), <i>Swiss Archives of Neurology, Psychiatry and Psychotherapy</i> , 70 (Supplement 8), 48S, 2019	Conference abstract
Ougrin, D., Corrigan, R., Poole, J., Zundel, T., Sarhane, M., Slater, V., Stahl, D., Reavey, P., Byford, S., Heslin, M., Ivens, J., Crommelin, M., Abdulla, Z., Hayes, D., Middleton, K., Nnadi, B.,	Not self-harm. In addition, the interventions evaluated in this economic analysis (a supported discharge service provided by an intensive community treatment team compared to usual

Study	Reason for Exclusion
Taylor, E., Comparison of effectiveness and cost-effectiveness of an intensive community supported discharge service versus treatment as usual for adolescents with psychiatric emergencies: a randomised controlled trial, <i>The Lancet Psychiatry</i> , 5, 477-485, 2018	care) were not relevant to any review questions
Palmer, S., Davidson, K., Tyrer, P., Gumley, A., Tata, P., Norrie, J., Murray, H., Seivewright, H., The cost-effectiveness of cognitive behavior therapy for borderline personality disorder: results from the BOScot trial, <i>Journal of Personality Disorders</i> , 20, 466-481, 2006	Not self-harm
Quinlivan L, Steeg S, Elvidge J, et al. Risk assessment scales to predict risk of hospital treated repeat self-harm: A cost-effectiveness modelling analysis. <i>J Affect Disord</i> . 2019;249:208-215.	Not relevant to any of the review questions in the guideline - this study estimated the cost-effectiveness of of risk assessment scales versus clinical assessment for adults attending an emergency department following self-harm
Richardson JS, Mark TL, McKeon R. The return on investment of postdischarge follow-up calls for suicidal ideation or deliberate self-harm. <i>Psychiatr Serv</i> . 2014;65(8):1012-1019.	Not enough data reporting on cost-effectiveness findings
Smits, M. L., Feenstra, D. J., Eeren, H. V., Bales, D. L., Laurensen, E. M. P., Blankers, M., Soons, M. B. J., Dekker, J. J. M., Lucas, Z., Verheul, R., Luyten, P., Day hospital versus intensive out-patient mentalisation-based treatment for borderline personality disorder: Multicentre randomised clinical trial, <i>British Journal of Psychiatry</i> , 216, 79-84, 2020	Not self-harm
Tsiachristas, A., Geulayov, G., Casey, D., Ness, J., Waters, K., Clements, C., Kapur, N., McDaid, D., Brand, F., Hawton, K., Incidence and general hospital costs of self-harm across England: estimates based on the multicentre study of self-harm, <i>Epidemiology & Psychiatric Science</i> , 29, e108, 2020	Study design – no comparative cost analysis
Tsiachristas, A., McDaid, D., Casey, D., Brand, F., Leal, J., Park, A. L., Geulayov, G., Hawton, K., General hospital costs in England of medical and psychiatric care for patients who self-harm: a retrospective analysis, <i>The Lancet Psychiatry</i> , 4, 759-767, 2017	Study design – no comparative cost analysis
Tubef, S., Saloniki, E. C., Cottrell, D., Parental Health Spillover in Cost-Effectiveness Analysis: Evidence from Self-Harming Adolescents in England, <i>PharmacoEconomics</i> , 37, 513-530, 2019	This study is not a separate study from one already included in the guideline for topic 5.2 (Cottrel 2018). This secondary analysis presents alternative parental health spillover quantification methods in the context of a randomised controlled trial comparing family therapy with treatment as usual as an intervention for self-harming adolescents of (Cottrel 2018), and discusses the practical limitations of those methods
Tyrer, P., Thompson, S., Schmidt, U., Jones, V., Knapp, M., Davidson, K., Catalan, J., Airlie, J., Baxter, S., Byford, S., Byrne, G., Cameron, S., Caplan, R., Cooper, S., Ferguson, B., Freeman,	Study design - no economic evaluation

Study	Reason for Exclusion
C., Frost, S., Godley, J., Greenshields, J., Henderson, J., Holden, N., Keech, P., Kim, L., Logan, K., Manley, C., MacLeod, A., Murphy, R., Patience, L., Ramsay, L., De Munroz, S., Scott, J., Seivewright, H., Sivakumar, K., Tata, P., Thornton, S., Ukoumunne, O. C., Wessely, S., Randomized controlled trial of brief cognitive behaviour therapy versus treatment as usual in recurrent deliberate self-harm: The POPMACT study, <i>Psychological medicine</i> , 33, 969-976, 2003	
Van Rooijen, L. H., Sinnavee, R., Bouwmans, C., Van Den Bosch, L., Cost-effectiveness and Cost-utility of Shortterm Inpatient Dialectical Behavior Therapy for Chronically Parasuicidal BPD (Young) Adults, <i>Journal of Mental Health Policy and Economics</i> , 18, S19-S20, 2015	Conference abstract
van Spijker, B. A., Majo, M. C., Smit, F., van Straten, A., Kerkhof, A. J., Reducing suicidal ideation: cost-effectiveness analysis of a randomized controlled trial of unguided web-based self-help, <i>Journal of medical Internet research</i> , 14, e141, 2012	Not self-harm

Appendix K Research recommendations – full details

Research recommendations for review question: How should assessment for people who have self-harmed be undertaken in specialist settings?

No research recommendations were made for this review question.