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Why do adolescents self-harm? An investigation of motives in a community sample

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Abstract

Background. Given the high rates of self-harm among adolescents, recent research has focused on a better understanding of the motives for the behaviour.

Aims. The present study had three aims: to investigate (i) which motives are most frequently endorsed by adolescents who report self-harm; (ii) whether motives reported at baseline predict repetition of self-harm over a 6 month period; and (iii) whether self-harm motives differ between boys and girls.

Methods. 987 school pupils aged 14-16 years completed a lifestyle and coping questionnaire at two time points 6 months apart that recorded self-harm and the associated motives.

Results. The motive “to get relief from a terrible state of mind” was the most commonly endorsed reason for self-harm (in boys and girls). Interpersonal reasons (e.g. “to frighten someone”) were least commonly endorsed. Regression analyses showed that adolescents who endorsed “wanting to get relief from a terrible state of mind” at baseline were significantly more likely to repeat self-harm at follow-up than those adolescents who did not cite this motive.

Conclusions. The results highlight the complex nature of self-harm. They have implications for mental health provision in educational settings, especially in relation to encouraging regulation of emotions and help-seeking.

Keywords: self-harm, reasons, motives, adolescent, repetition
Self-harm, defined as any type of intentional self-injury or self-injurious behaviour regardless of suicidal intent (Hawton, Harriss, Hall, Simkin, Bale & Bond, 2003) is a significant public health problem, especially among young people (Hawton, Saunders, & O’Connor, 2012). Adolescent self-harm also represents one of the leading causes of hospital admission in young people in the UK (e.g., O’Loughlin & Sherwood, 2005) and it is strongly associated with risk of future suicide (Goldacre & Hawton, 1985; Owens, Horrocks, & House, 2002; O’Carroll et al., 2014). Whereas much research has highlighted the characteristics of those individuals who present to hospital following self-harm, there are relatively few large-scale studies of adolescent self-harm in the community (O’Connor et al., 2009). This is problematic as the majority of adolescents who self-harm do not present to clinical services (Groholt, Ekeberg, Wichstrom, & Haldorsen, 2000; Ystgaard et al., 2009; King, 1997).

Recent attempts to investigate the prevalence of adolescent self-harm in the community in the UK have found that approximately 13-14% of adolescents report having engaged in self-harm, with girls being significantly more likely to self-harm than boys (O’Connor et al., 2009, Hawton et al., 2002; O’Connor, Rasmussen, Miles, & Hawton, 2009, 2012; O’Connor et al., 2014). In addition, research has highlighted a number of risk (e.g., depression, hopelessness, bullying, sexual/physical abuse, exposure to the self-harm by others) and protective factors (e.g., good problem-solving skills, peer relationships), which gives some insight into why some adolescents are more vulnerable to self-harm than others (e.g., Fliege, Lee, Grimm, & Klapp, 2009; Gutierrez, 2006; Hawton, Saunders, & O’Connor, 2012; O’Connor, Rasmussen & Hawton, 2012); however, our understanding of the motives behind these behaviours remains limited. A more detailed appreciation is imperative for the development of interventions in this population (Hawton, Cole, O’Grady, & Osborn, 1982).
Motives for adolescent self-harm

There is growing evidence that adolescents report multiple reasons for self-harm, and that the behaviour is primarily an expression of intolerable psychological pain. For example, Scoliers, Portzky, Madge, Hewitt, Hawton, de Wilde, & van Heeringen, (2009) investigated self-harm motives in a sample of 30,477 adolescents from six European countries by examining motives in terms of two overarching dimensions; one which represents externally directed reasons (e.g. ‘I wanted to find out if someone really loved me’) and the other reflecting internally directed reasons (e.g. ‘I wanted to get relief form a terrible state of mind’). The findings were clear: adolescents were significantly more likely to report wanting to die, escape or obtain relief from their situation, than they were to report wanting to change or ‘manipulate’ another person (Scoliers et al., 2009).

This finding is consistent with research from adult populations (Bancroft, Hawton, Simkin, Kingston, Cumming & Whitewell, 1979; Michel, Valach, & Waeber, 1994). For example, Holden, Kerr, Mendoca & Velamoor (1998) examined the motives of 251 individuals (aged 14-63 years) who attended a Crisis and Short-Term Intervention Unit of a psychiatric hospital and concluded that internally directed motivations for suicidal behaviour represent valid indicators of intent to die as well as overall suicide risk. In addition, research has also shown that self-harm is rarely the result of a single motive (e.g. to get attention), as most individuals identify multiple reasons/motives for the behaviour (e.g., Hjelmeland et al., 2002; McAuliffe, Arensman, Keeley, Corcoran, & Fitzgerald, 2007).
Theoretical work in the field also supports the idea that self-harm often serves multiple functions (Brown, Comtois, & Linehan, 2002; Haines, Williams, Brain, & Brown, 1995), and that it is important to distinguish between interpersonal and intrapersonal/automatic functions (Klonsky & Glenn, 2009; Knock & Prinstein, 2004). In addition, this work suggests that considering the functions of self-harm may be particularly relevant within a clinical context as the functions may have implications not only for the assessment but also the treatment of self-harm (Nock and Prinstein, 2005). These findings are unfortunately in stark contrast to the view often expressed by professionals, who perceive adolescent self-harm as being driven by a wish to manipulate others (see Hawton, Cole, O’Grady & Osborn, 1982; Schnyder, Vlach, Bichsel, & Konrad, 1999).

**Gender differences**

Whilst research into adolescent self-harm shows clear differences in prevalence rates between boys and girls, with girls being significantly more likely to self-harm than boys (Madge et al., 2008; Hawton & Harris, 2008; O’Connor et al., 2009), evidence for the existence of gender differences in motivation is equivocal. On the one hand, Scoliers et al. (2009) found that girls reported significantly more motives for their self-harm than boys did, and this difference held for both intrapersonal and interpersonal motives. These findings could possibly be interpreted as girls have greater insight into the complexity of the motivations or simply that they are generally more emotionally literate or willing to admit to diverse motives. By contrast, however, Hjelmeland (2002) and Skogman & Öjehagen (2003) found no significant gender differences in self-reported motivations for self-harm (although it is worth bearing in mind that most of the patients in both of the latter studies were adults). Given the gender differences in self-harm rates, and the potential differences in
motives for self-harm, we thought it was important to look again at gender within the current study. To allow comparability with other adolescent studies, we chose to employ the same methodology as Scoliers et al. (2009).

The present study

This investigation stems from a wider study of self-harm in Northern Irish adolescents aged 14-16 years, full details of which are described elsewhere (O’Connor, Rasmussen, & Hawton, 2014). In the current paper, our primary aim was to examine the motives reported by adolescent boys and girls who had self-harmed. More specifically, we wished to examine a) whether these motives were more likely to be intrapersonal or interpersonal, b) whether differences existed in the motives chosen by girls when compared with boys, and c) whether motives at baseline were predictive of future self-harm over a 6 month follow-up period.

This study is important as no research, to date, has investigated whether motivations for past self-harm are predictive of self-harm over time in a community adolescent sample, and the findings could have potential utility in terms of intervention and prevention efforts.

Consistent with Scoliers et al. (2009) we hypothesised that young people would be significantly more likely to endorse internally-directed (intrapersonal) ‘cry of pain’ motives than externally directed ‘cry for help’ (interpersonal) motives (hypothesis 1). Such a hypothesis is consistent with recent theoretical developments which highlight the role of feelings of defeat and entrapment (i.e. internal pain) in self-harm and suicidal behaviour (e.g., O’Connor, 2011; Williams, 2014). Second, given the ambiguous findings on gender differences, we also wished to examine whether boys and girls differed in the motives they reported following self-harm. In a cross-sectional study Scoliers et al. (2009) found that girls
were more likely to report multiple motives than boys. We therefore hypothesised that girls
would report more reasons for self-harm than boys (hypothesis 2). Finally, building on the
evidence that psychological pain is particularly associated with self-harm, we also predicted
that those adolescents who reported intrapersonal motives for self-harm at baseline would
be significantly more likely to repeat self-harm over the follow-up period than those
individuals who did not report intrapersonal reasons at baseline (hypothesis 3).

Methods

Sample

The sample included 987 school pupils aged 14-16 years (mean age 14.7 years, SD=.60).
There were 423 boys (43%) and 564 girls, with 97% of the sample being White. They were a
sub-sample of 3596 pupils who completed the Northern Ireland Lifestyle and Coping Survey
(O’Connor et al., 2014). The sub-sample represents all participants who completed the
survey at two time points (time one (T1) and time two (T2), six months later). In the original
survey, a representative sample of all schools in Northern Ireland agreed to take part (n=28)
and although all schools were invited to take part in the 6 month follow-up, only 16 out of
the 28 schools agreed. The present study is based on responses from pupils in these 16
schools. A comparison of the schools which participated in both the T1 and T2 parts of the
study showed that pupils who took part in both parts of the study were significantly more
likely to be from the grammar rather than the secondary school sector $\chi^2(1, n=3596)=5.71,
p<.02)$. In addition, significantly fewer schools with more than 17% of pupils eligible for free
school meals agreed to participate in the follow-up ($\chi^2(1, n=3596)=101.48, p<.001$). There
was no difference based on the location of the school (urban versus rural; $\chi^2(1, n=3596)=.62, ns$). Finally, when comparing the original sample ($n=35960$ with the subsample included in the following analyses ($n=987$) we did not find any difference in self-harm rate $\chi^2(1, n=3520)=1.76, ns$).

The follow-up response rate within schools varied between 19-79%. Therefore, to determine whether the young people who took part in the follow-up survey differed from those who declined, we conducted further analysis. This demonstrated that those young people who reported self-harm at T1 were less likely to complete the follow-up questionnaire than those young people who did not report self-harm at T1, $\chi^2(1, n=2235)=7.46, p<.05$; however, they did not differ in terms of the motives provided for self-harm at T1.

Measures and Procedure

All participants completed the Northern Ireland Lifestyle and Coping Survey in school. This was adapted from the Child and Adolescent Self-harm in Europe (CASE) Lifestyle and Coping Questionnaire (Hawton, Rodham, Evans, & Weatherall, 2002; Madge, Hewitt, Hawton et al., 2008). They also completed a brief version of the survey 6 months later. The original questionnaire was developed in collaboration with experts in school-based studies and underwent extensive piloting in schools and an adolescent psychiatric unit and has already been administered in eight countries (England, Republic of Ireland, Scotland, The Netherlands, Belgium, Norway, Hungary and Australia). We only report on those questions pertinent to the present study here (see O’Connor et al. (2014) for full details of the procedure and measures included in the Northern Ireland Lifestyle and Coping Survey). As part of the survey, the young people were asked to answer questions on self-harm. Self-
harm (at baseline) was recorded if an adolescent responded ‘yes’ to the following question

“Have you ever deliberately taken an overdose (e.g., of pills or other medication) or tried to
harm yourself in some other way (such as cut yourself)?”. Whilst this methodology does
include a description of the act in terms of method used, for the current analyses we did not
use the description to classify the act as self-harm because excluding those who chose not
to write a description might yield an underestimate of prevalence as some respondents
deemed describing the act as too personal and painful.

In addition, respondents were asked to endorse if their most recent self-harm episode was
explained by any of the following motives: ‘I wanted to show how desperate I was feeling’, ‘I
wanted to die’, ‘I wanted to punish myself’, ‘I wanted to frighten someone’, ‘I wanted to get
my own back on someone’, ‘I wanted to get relief form a terrible state of mind’, ‘I wanted to
find out if someone really loved me’ and ‘I wanted to get some attention’ (derived from
Bancroft et al., 1979). At follow-up, six months later, respondents were asked whether they
had self-harmed since they first completed the survey.

Ethical approval was obtained from the Department of Psychology Ethics Committee at the
University of Stirling. Parents were informed of the study by letter and asked to notify the
school if they did not want their child to participate. On the day of participation, pupils were
given the choice of opting out and not participating. The survey was administered in a
school assembly hall or classroom setting, and each pupil was provided with a sealed,
approximate envelope in which to return their questionnaire. All pupils were given a
debriefing sheet containing information about support organisations (e.g., helplines). An
anonymous and confidential code was employed to link the pupils’ responses between the
two time points. All data were collected in 2009.
Statistical analyses

A series of univariate logistic regression analyses and Chi-square tests were conducted to test the association between self-harm and associated variables and to determine entry into the multivariate analyses. In the univariate logistic regression analyses, to adjust for potential clustering effects, the Huber-White sandwich estimator method using logistic regression with school as a clustering variable was used. Within the multivariate logistic regression analyses standard errors were again adjusted for within school clustering. All analyses were conducted using SPSS (version 21). For comparison purposes, we chose to report the data without controlling for depression and anxiety as this has not been done in previous research using the same methodology (e.g. Scoliers et al., 2009; Madge et al., 2008); however, separate analyses was conducted which controlled for these variables and this did not affect the outcomes.

Results

Self-harm Motives at Baseline

At baseline, 8.9% (n=88) of the 987 respondents (564 girls and 423 boys) reported at least one episode of self-harm in their lifetime. Girls were almost 2.5 times (odds ratio=2.43; 95% CI 1.472-4.002) more likely to report self-harm than boys (11.8% (66/558) versus 5.2% (22/420) respectively). “Wanting to get relief from a terrible state of mind” was the most commonly reported motive by the young people (62.5%). “Wanting to frighten someone” (14.8%), “wanting to get their own back on someone” (10.2%), and “wanting to get some attention” (12.5%) were the least commonly reported (see Table 1). Based on Scoliers et al.’s (2009) classification scheme, 79.5% of those who had self-harmed reported at least one
intrapersonal motive, 40.9% reported at least one intrapersonal motive, and 31.8% reported
at least one intrapersonal together with one interpersonal motive.

**Gender Differences in Baseline Motives for Self-harm**

More boys than girls reported “wanting to frighten someone” ($\chi^2=18.90$ df=1, 14; $p<0.05$),
and significantly more girls than boys reported “wanting to die” ($\chi^2=3.79$; df=1, 14; $p<0.05$).
Additionally, more boys than girls reported at least one ‘Cry for Help’ motive (59.1% and
34.8% respectively, $\chi^2=4.01$; df=1, 14; $p<0.05$), but there was no significant difference with
respect to intrapersonal motives ($\chi^2=0.84$; df=1, 14; $p=ns$).

About half of those who self-harmed (55.6%) reported more than one self-harm motive
(n=49), but girls and boys did not differ in how frequently they reported multiple motives
(54.5% and 59.1% respectively, $\chi^2=1.82$; df=1, 14; $p=ns$). See Table 1 for a breakdown of the
motives cited by gender.

[Insert Table 1 about here]

**Predicting Repeat Self-Harm**

During the 6 month follow-up period, 26.1% (n=23) of those who self-harmed at baseline
reported having self-harmed again (4 boys and 19 girls). Univariate logistic regression was
used to determine which motives cited by those who engaged in self-harm at baseline
predicted repeat self-harm in the subsequent six month period. These analyses revealed
that the motives “I wanted to get relief from a terrible state of mind” (intrapersonal) and “I
wanted to find out whether someone really loved me” (interpersonal) were independently
associated with repeat self-harm (see Table 2). Reporting a ‘wish to die’ at baseline was not predictive of further self-harm during the follow-period.

Univariate logistic regression was also used to determine whether citing intrapersonal or interpersonal motives at baseline predicted repeat self-harm in the subsequent six month period. Only intrapersonal responses were found to have a significant relationship with repeat self-harm (p<0.005). As there were no cases of repeat self-harm where the young person did not cite at least one intrapersonal motive, the odds ratio could not be calculated.

[Insert Table 2 about here]

Next, the two self-harm motives that emerged from the univariate analyses (i.e., “I wanted to get relief from a terrible state of mind” and “I wanted to find out whether someone really loved me”) were entered into multivariate regression analyses (See Table 3). Adolescents who cited “I wanted to get relief from a terrible state of mind” as a motive were more than 17 times more likely (odds ratio=17.77; 95% CI 1.63-190.70) to report self-harm at the 6 month follow-up period (controlling for the other motive). By contrast, those who cited “I wanted to find out whether someone really loved me” as a motive at baseline were significantly less likely (odds ratio=0.047; 95% CI .004-.569) to repeat self-harm (controlling for the other motives).

[Insert Table 3 about here]

Discussion
This school-based study addressed three research aims and three associated specific hypotheses. First, in support of hypothesis 1, we found clear evidence that intrapersonal self-harm motives were more likely to be endorsed by the adolescents than interpersonal motives. However, it is worth noting that over half of the adolescents reported multiple motives, with “I wanted to get relief from a terrible state of mind” being the most frequently endorsed motive by both boys and girls. This is in keeping with previous research in adolescent samples from England (Hawton et al., 2002), Scotland (O’Connor et al., 2009), Continental Europe (Scoliers et al., 2009), and studies of both adolescents (Hawton et al., 1982) and adults presenting to hospital following self-harm (Schnyder et al., 1999; Hjelmeland et al., 2002; Bancroft et al., 1979). It is also consistent with previous research which has suggested that it is likely that self-harm serves several functions concurrently (Suyemoto, 1998), and therefore the complexity of self-harm must not be underestimated (Skegg, 2005). Importantly, whilst the behaviour may have some communicative element, the overarching theme of the behaviour in adolescents is related to emotional pain. The present findings reinforce the notion that for the majority of young people self-harm is not primarily a manipulative act. They also illustrate that to simply consider the seriousness of a behaviour in relation to whether intention to die has been expressed or not is misleading (Loughrey & Kerr, 1989).

From a theoretical point of view, our findings lend support to research which has argued for a need to distinguish between different functional reasons for engaging in self-harm. For example, Nock and Prinstein (2004) proposed four primary functions that fit along two dichotomous dimensions of automatic versus social behaviour and reinforcement which is either positive or negative. Whilst the measure of motives included in our study does not
allow a full evaluation according to this framework, our findings certainly map onto the
distinction between social/interpersonal and intrapersonal/automatic behaviours. More
specifically, our findings are consistent with functional research which suggests that the
most frequently endorsed function among adolescents is to reduce negative emotions
(automatic negative reinforcement; Nock & Prinstein, 2004).

In support of the second hypothesis, we found evidence of significant gender differences,
with girls being more likely to report “wanting to die”, and boys being more likely to
endorse wanting “to frighten someone”. Whilst these reasons were the most infrequent
motives reported by both boys and girls more generally, the gender difference is similar to
findings by Laye-Gindhu and Schonert-Reichl (2005) that boys more frequently reported
self-harming in order to communicate with others. Similarly, Lloyd-Richardson et al. (2007)
found that boys were more likely than girls to express wanting to make others angry whilst
girls were more likely than boys to want to punish themselves. It is possible that these
gender differences are related to differences in socialisation patterns, with girls being more
likely to direct their feelings inwards, whilst boys are more likely to direct their distress
outwards (Crick and Zahn-Waxler, 2003; Parker et al., 1998). This suggestion may also help
to explain the gender difference in intention to die as we found girls were more likely than
boys to report wishing to die. Overall, such findings support the conclusion by Laye-Gindhu
and Schonert-Reich (2005) that research on self-harm should always take into account
differences between boys and girls.

Finally, we were specifically interested in examining whether self-harm motives at baseline
predicted future self-harm, 6 months following baseline. To this end, the analyses showed
that adolescents who reported self-harming to “get relief from a terrible state of mind”
were significantly more likely to repeat self-harm, whilst those who reported self-harming to “find out whether someone really loved me” were significantly less likely to repeat self-harm. This finding supports our hypothesis (hypothesis 3) and is consonant with earlier research which has suggested that more intense emotions may be implicated in greater emotional dysregulation which, in turn, increases the risk of self-harm (Gratz, 2006).

However, this finding is at odds with Hjelmeland et al. (1998) who reported that motives for self-harm did not predict repetition of self-harming behaviour in a European sample of 776 self-harming individuals aged 15+ who took part in the WHO/Euro Multicentre Study on Parasuicide. Crucially, though, this latter study focused largely on adults (largely, the majority of participants being aged 30-59 years) who presented to hospital following a self-harm episode (primarily following an overdose). We believe the prospective element of this study is important because it highlights two key motives which ought to be taken into consideration when assessing risk of future self-harm in community-based, school-attending adolescents.

Implications

Understanding the motives that underpin self-harm in young people is vital to the development of appropriate intervention and treatment programmes. Research has shown that young people often do not seek help before self-harming (Hargus, Hawton & Rodham, 2009; Ystgaard et al., 2009), which is a concern given our finding that the most frequently endorsed reason for self-harm in our study was to get relief from a terrible state of mind. This finding mirrors what has been reported elsewhere (Rodham, Hawton & Evans, 2004; Boergers, Spririto & Donaldson, 1998; Hawton, Cole, O’Grady & Osborn, 1982). What is more, those young people who reported self-harming as a result of psychological pain were
17 times more likely to repeat self-harm over the 6 month follow up period. Given the gender differences in motives, we also believe that there is value in considering whether interventions and treatments to reduce/manage self-harm should be tailored separately for girls and boys. An additional challenge is how to encourage young people to seek help earlier and determining whether the pattern of help-seeking varies as a function of self-harm motives. The findings also suggest that personal and social development efforts should usefully be aimed at promoting emotional regulation skills and developing effective methods for dealing with stress and communication.

**Limitations and future research**

Although these findings offer additional insights regarding the motives for adolescent self-harm and therefore contribute to our understanding of adolescent self-harm more generally, they must be interpreted in the light of some limitations. First, although the study sample was relatively large, the proportion of adolescents who reported self-harm at baseline was modest (8.9%; n=88) and the number of people who self-harmed between Time 1 and Time 2 was small (n=23). Although the odds ratio in the predictive analyses for “I wanted to get relief from a terrible state of mind” is impressive, we would urge caution given that the confidence intervals are also large. Similarly, it is worth noting that the follow-up response rate for those young people who reported self-harm at T1 was lower than for young people who did not report self-harm at T1 which could have led to a bias in the final sample composition. We therefore acknowledge that reliance on self-reported behaviour only is a limitation which could have resulted in an under-estimate in the rates of self-harm. We also recognise that both substance use and self-injurious acts are covered within our self-harm question. Whilst these behaviours are often discussed separately in the...
literature, in studies where the young people’s answer to this question has been compared to a description of the self-harm act, the overwhelming majority of the acts are of self-harm. In addition, as the study involved a standardised list of self-harm motives it precluded respondents generating any additional motives, and the format did not allow us to measure the degree of ‘wish to die’. Given the variation in extent of intent to die (Harriss, Hawton, Zahl, 2005), this may explain why we did not find that reporting a ‘wish to die’ at T1 was predictive of self-harm at follow-up. Furthermore, this list is not exhaustive, and does not, for example, include motives such as lack of social connectedness or a wish to belong, which have been highlighted elsewhere as being important interpersonal factors related to adolescent self-harm (e.g., Kaminski, Puddy, Hall, Cashman, Crosby, & Ortega, 2010).

However, we believe that the utility of administering a standardised questionnaire outweighs the limitations as it allows for direct comparison across different studies and countries. Given our limited sample size, unlike Scoliers et al. we were unable to explore differences in motives in younger versus older adolescents. Thus, it is possible that further gender differences may have been evident if our sample had been amenable to further analysis by age.

**Conclusion**

The findings of this study highlight the utility of examining the motives underpinning adolescent self-harm. In particular, they point to specific motives which predicted self-harm repetition over 6 months which ought to be considered when assessing risk of self-harm repetition. Clearly, an enhanced understanding of the motives behind self-harm can play a valuable role in the prevention of further self-harm through the development of appropriate treatment or coping strategies. Furthermore, the results highlight the complexity of the
motives underpinning self-harm, the fact that the motives are many, and that efforts to
tackle adolescent need to be made with recognition of this complexity.

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NHS Foundation Trust.
References


Table 1. Motives given for most recent episode of self-harm, by gender (n=66 girls, 22 boys)

<table>
<thead>
<tr>
<th>Motive:</th>
<th>Girls N</th>
<th>N (%)</th>
<th>Boys N</th>
<th>N (%)</th>
<th>Total %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. To show how desperate I was feeling</td>
<td>13</td>
<td>19.7</td>
<td>6</td>
<td>27.3</td>
<td>21.6</td>
</tr>
<tr>
<td>2. To die</td>
<td>28</td>
<td>42.4</td>
<td>5</td>
<td>22.7</td>
<td>37.5</td>
</tr>
<tr>
<td>3. To punish myself</td>
<td>24</td>
<td>36.4</td>
<td>6</td>
<td>27.3</td>
<td>34.1</td>
</tr>
<tr>
<td>4. To frighten someone</td>
<td>6</td>
<td>9.1</td>
<td>7</td>
<td>31.8</td>
<td>14.8</td>
</tr>
<tr>
<td>5. To get my own back on someone</td>
<td>5</td>
<td>7.5</td>
<td>4</td>
<td>18.2</td>
<td>10.2</td>
</tr>
<tr>
<td>6. To get relief from a terrible state of mind</td>
<td>44</td>
<td>66.7</td>
<td>11</td>
<td>50.0</td>
<td>62.5</td>
</tr>
<tr>
<td>7. To find out whether someone really loved me</td>
<td>12</td>
<td>18.2</td>
<td>6</td>
<td>27.3</td>
<td>20.5</td>
</tr>
<tr>
<td>8. To get some attention</td>
<td>5</td>
<td>10.6</td>
<td>4</td>
<td>18.2</td>
<td>12.5</td>
</tr>
<tr>
<td><strong>Citing at least one type of motive:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘Intrapersonal’</td>
<td>54</td>
<td>81.8</td>
<td>16</td>
<td>72.7</td>
<td>79.5</td>
</tr>
<tr>
<td>‘Interpersonal’</td>
<td>23</td>
<td>42.4</td>
<td>13</td>
<td>59.4</td>
<td>40.9</td>
</tr>
</tbody>
</table>

Note: Similar to Scoliers et al. (2009), motives 1, 4, 5, 7 and 8 are categorised as ‘interpersonal’, whilst motives 2, 3, and 6 are categorised as ‘intrapersonal’ reasons.
Table 2. Univariate logistic regression analyses of motives predicting repeat self-harm at time two (at six months).

<table>
<thead>
<tr>
<th>Motive</th>
<th>Odds ratio</th>
<th>95% CI</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>To show how desperate I was feeling</td>
<td>0.350</td>
<td>0.04-2.95</td>
<td>0.29</td>
</tr>
<tr>
<td>To die</td>
<td>0.469</td>
<td>0.11-1.99</td>
<td>0.26</td>
</tr>
<tr>
<td>To punish myself</td>
<td>1.434</td>
<td>0.540-3.82</td>
<td>0.43</td>
</tr>
<tr>
<td>To frighten someone</td>
<td>0.620</td>
<td>0.06-7.03</td>
<td>0.67</td>
</tr>
<tr>
<td>To get my own back on someone</td>
<td>0.918</td>
<td>0.07-12.87</td>
<td>0.95</td>
</tr>
<tr>
<td>To get relief from a terrible state of mind</td>
<td>14.448</td>
<td>1.43-145.71</td>
<td>0.01</td>
</tr>
<tr>
<td>To find out whether someone really loved me</td>
<td>0.064</td>
<td>0.00-0.99</td>
<td>0.03</td>
</tr>
<tr>
<td>To get some attention</td>
<td>0.425</td>
<td>0.03-5.31</td>
<td>0.47</td>
</tr>
</tbody>
</table>

Citing at least one type of motive:

<table>
<thead>
<tr>
<th></th>
<th>Odds ratio</th>
<th>95% CI</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘Intrapersonal’</td>
<td>N/A</td>
<td>N/A</td>
<td>0.00</td>
</tr>
<tr>
<td>‘Interpersonal’</td>
<td>0.398</td>
<td>0.08-1.93</td>
<td>0.21</td>
</tr>
</tbody>
</table>
Table 3. Multivariate associations of most recent episode of self-harm at baseline with repeat self-harm

<table>
<thead>
<tr>
<th></th>
<th>Odds ratio</th>
<th>95% CI</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>To get relief from a terrible state of mind</td>
<td>11.194</td>
<td>1.383-90.595</td>
<td>0.024</td>
</tr>
<tr>
<td>To find out whether someone really loved me</td>
<td>0.099</td>
<td>0.012-0.843</td>
<td>0.034</td>
</tr>
</tbody>
</table>
About the authors

Susan Rasmussen is a chartered Health Psychologist and Senior Lecturer at the University of Strathclyde. She is an affiliate member of the Suicidal Behaviour Research Laboratory, University of Glasgow. Her interest lies in the testing of theoretical models to explain risk and protective factors implicated in suicide/self-harm.

Keith Hawton, DSc, FMedSci, is Professor of Psychiatry at Oxford University Department of Psychiatry, UK, where he is Director of the Centre for Suicide Research. His research encompasses epidemiology, causes, treatment and prevention of suicidal behaviour. He has a longstanding interest in self-harm in adolescents.

Siôn Philpott-Morgan received the M.Sc. degree in Mathematical Sciences and Psychology from Durham University in 2007. More recently he has worked as a Research Assistant for Strathclyde University and King’s College London. He is a member of the Royal Statistical Society.

Rory O’Connor, Professor of Health Psychology, leads the Suicidal Behaviour Research Laboratory at University of Glasgow [www.suicideresearch.info]. He is President of the International Academy of Suicide Research and he has a longstanding interest in understanding the psychological and psychosocial factors implicated in the aetiology and course of suicide and self-harm.