Dealing with Difficult Days: Functional Coping Dynamics in Self-Harm Ideation and Enactment

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There is a convergence of robust research evidence indicating that self-harm, self-poisoning or self-injury regardless of suicidal intent (National Institute for Clinical Excellence, 2011), functions primarily as a means of altering or ameliorating emotional experiences - typically intense aversive states of mind. That is to say, self-harm provides people with a way to escape from distress, at least in the short term (see, Chapman et al., 2006). While research indicates that engaging in self-harm offers people a means of coping (Evans et al., 2005; Warm et al., 2003), there remains a question as to why people engage in this particular behaviour in response to a given situation (Suyemoto, 1998).

While the current study assesses self-harm regardless of suicidal intent (or lack thereof) research considering non-suicidal self-injury (NSSI), suicide attempts and self-harm behaviours has been included in the introduction, given that that everyone engaging in self-harmful behaviours lies on a continuum of suicidal intent (Kapur et al., 2013; Orlando et al., 2015).

A large proportion of the extant literature primarily addresses distal risk factors for self-harm and/or suicide. Consequently, relatively little is understood about the *whys* of self-harm (Townsend, 2014), or indeed the *whens*. Many studies have relied on the use of long-term retrospective measures that aggregate experiences, whether in the assessment of self-harm, e.g., "Please estimate the number of times *in your life* you have intentionally (i.e., on purpose) performed each type of non-suicidal self-harm..." (Klonsky and Glenn, 2009; Klonsky and Olino, 2008), "Have you *ever* battered or hit yourself?", "Have you *ever* cut yourself?" (Glazebrook et al., 2015; Hawton et al., 2002) or the assessment of coping, e.g., "...indicate *what you generally do* and feel, when you experience stressful events..." (Carver et al., 1989). To increase both our understanding of self-harm and our capacity to respond

appropriately, it is of paramount importance to unpack the more proximal factors surrounding self-harm thoughts and behaviours.

The extant literature suggests that the nature of the stressor itself may be associated with responding. For example, interpersonal stressors (e.g., disputes with family, conflicts within friendships, fall outs with girlfriend/ boyfriend) are consistently reported by those presenting to A&E following self-harm (Townsend et al., 2015) and are independent predictors of suicide attempts in young adults (Johnson et al., 2002). While such research evidence elucidates characteristics of a life stressor that may be associated with self-harm, little is known about the significance of coping characteristics. Despite a notable shift in conceptualisation of psychopathology to focus on behavioural functionality (Armey et al., 2011) and an increased understanding that purpose and meaning are paramount in understanding the complex and dynamic nature of self-harm (Shaw, 2006), functional coping dynamics are an, as yet, under-researched area.

Elucidating the functional coping dynamics underpinning self-harm thoughts and behaviours – that is to say, what purpose a person believes their coping behaviours and cognitions will serve, their self-defined coping goals – may be an important next step in understanding the *whens* of self-harm. Developing a clearer understanding of the functions that self-harm experiences serve, in response to a given stressor, has important clinical implications; while the nature of the stressor can not be altered, coping responses are inherently dynamic (Ferguson and Cox, 1997). Functional coping dynamics therefore represent potentially modifiable targets for intervention. Indeed, developing alternative coping strategies is evidenced as key theme in 'naturalistic' cessation of self-harm engagement (Gelinas and Wright, 2013). Research evidence is paramount in determining *which* coping functions may be particularly relevant when considering supporting alternative coping. Therefore, developing a more comprehensive account of the functional coping processes underpinning self-harm thoughts and behaviours (or lack there of) may be an important step in understanding how to best facilitate alternative coping and support change.

Self-Harm Ideation Versus Self-Harm Enactment

Despite key theoretical advances (e.g., Interpersonal-Psychological Theory of suicidal Behaviour: Joiner, 2005; The Integrated Motivational-Volitional Model of suicidal behaviour: O'Connor, 2011) our ability to predict, explain, prevent and differentiate between self-harm thoughts and behaviour is arguably unsatisfactory at present (Klonsky and May, 2014; Stack, 2014). Many people have feelings or experiences (e.g., thoughts, urges, mental imagery) that relate to self-harming. For some, these experiences may occur before, or around, an episode of self-harm. Others have feelings or experiences that relate to self-harm without engaging in self-harm behaviours - they may 'just' think about self-harming. This may be because of effortful resistance or other factors (e.g., the intensity or duration of experiences) (Klonsky & Glenn, 2008; Nock, Prinstein, & Sterba, 2009).

Understanding the transitions between ideation (thoughts) and enactment (behaviours) has been identified as a key hurdle in suicide prevention efforts and a priority research area (Klonsky and May, 2014). Within this, it is paramount to appreciate that transitions are a dynamic process. Those who have self-harmed may not always continue to do so; self-harming may discontinue across time, or individuals may have periods free from harming/ thoughts of harming (Brown et al., 2007; Wadman et al., 2016). Therefore, transitions do not necessarily follow a uni-directional progression from ideation to enactment.

For a more comprehensive understanding of the processes underlying self-harm and suicide, research must address not only ideation to enactment but also behaviour change (e.g., pauses in behaviour engagement). Typically, research into ideation and enactment has categorised participants based on life-time histories of self-harm thoughts and behaviours. Ideation is readily acknowledged by clinicians as having a central role in the treatment and management of self-harm (Lynch and Cozza, 2009; Nixon and Heath, 2009), so it is important to have targeted research to understand ideation in those with a history of self-harm as well as those who have *only ever* thought of harming. That is to say, in those who have a history of self-harm, what predicts self-harm experience (ideation, enactment, or lack thereof) in response to a given stressor.

Functional Coping Dynamics and Change in Self-Harm

Cox and Ferguson (1991) outline four qualitatively distinct coping functions: (i) emotional regulation coping, which allows an individual to deal with the emotional consequences of a problem (ii) approach coping, which permit a person to deal directly with the problem (iii) reappraisal coping, readdressing and reinterpreting the meaning of a situation (iv) avoidance coping, allowing an individual to ignore the existence of the situation.

Research evidence indicates that functional coping dynamics may be an important psychological factor in understanding self-harmful behaviour, with approach and reappraisal coping functions being related to both lifetime self-harm status and the recency of behaviour engagement (Nielsen et al., 2016). To the best of our knowledge, to date no research has explored functional coping dynamics within an ideation to enactment framework. If we understand self-harm as affording people with a means of coping (Evans, Hawton, & Rodham, 2005; Warm, Murray, & Fox, 2003), then developing a comprehensive account of the wider functional dynamics surrounding these thoughts and behaviours is fundamental in grounding research efforts and guiding clinical practice. Increased understanding of the relationship between coping and self-harm holds the potential to inform interventions which not only help people to survive but also support them to thrive. Further to this, elucidating novel variables that differentiate self-harm thoughts from actions holds additional clinical utility.

Current Study

The present study aims to explore whether coping predicted self-harm experience (ideation, enactment, or lack thereof) in those who have a history of self-harm. The study focuses on the perceived functional dynamics of cognitive and behavioural coping employed in response to a stressor. Rather than exploring typical responses and thus aggregating experiences, the study considers responding to a specific, recent stressor chosen by participants. Given that self-harm experiences are transient and fluctuating phenomena, the study restricts its focus to participants who had self-harmed in the last 3 months and investigates responses to most significant stressor *in that period*. This aimed to eliminate the often noted limitations of long-term, retrospective self-reporting. Given that self-harm is often repeated (Owens et al., 2002) and that many individuals with self-harm histories experience strong (and often frequent) urges to engage in self-injurious behaviours (Washburn et al., 2010), the timeframe also aimed to ensure that reporting of self-harm ideation and enactment would be of sufficient frequency to facilitate meaningful exploration.

There is increasing concern about self-harm in non-clinical populations (Hasking et al., 2008; Lloyd-richardson et al., 2007; McMahon et al., 2014). While some who have experience of self-harm may come into contact with mental health services, either directly (i.e., for input related to self-harm) or indirectly (i.e., accessing treatment for other reasons), this does not reflect the experience of the majority (Hawton, Rodham, Evans, & Weatherall, 2002; Sourander, Helstelä, Haavisto, & Bergroth, 2001). Therefore, the study recruited a community-based sample.

The aims of the study were to:

1. Describe the frequency of self-harm ideation and enactment in response to recent stressors, in participants with recent self-harm.

2. Explore whether functional coping dynamics can differentiate self-harm experiences in response to the stressor (no self-harm; ideation; enactment).

Method

Participants

One thousand, one hundred and fifty-seven (N = 1157) participants took part in the study. Participants were a sub-sample of participants in a larger study of self-harm and were eligible for inclusion if they reported a recent history of self-harm (last 3 months). Participants varied in age between 16 and 49 Years (M = 18.21, SD = 3.24). Eighty-two participants did not disclose their age. The majority of the sample was female (79.9%; male, 9.4%; prefer not to say, 3.3%). Eighty-five participants (7.3%) did not indicate their gender.

Design and Procedure

The anonymous, self-report questionnaires were administered online. Participants were recruited via e-mail listings (e.g., Self-injury Support UK), the School of Psychology Research Participation Scheme and through social media (e.g., Twitter, Facebook). Recruitment was not topic blind. The questionnaire was advertised as, 'part of an on-going project investigating *coping function and self-harm*'. Where appropriate, undergraduate students received partial course credit to compensate for their participation.

This study protocol was approved by the institutional ethics review board. All participants provided written informed consent (via computer). The protocol did not allow for parental/legal guardian consent to be obtained. Therefore, only participants aged 16 years or older were eligible to participate.

Measures

Demographic factors. Age and gender demographics were captured.

Coping. Functional coping dynamics were assessed via the Functional Dimensions of Coping scale (FDC; Ferguson and Cox, 1997). The three-stage measure captures coping

responses both qualitatively and quantitatively. Stages 1-2 of the scale permit participants to describe (1) a specific stressful event they have experienced and (2) the coping responses (i.e., cognitions, behaviours) they employed in response to the stressor (free response). The present study focused on recent coping, therefore the FDC was restricted to the most stressful event in the last 3 months.

Stage 3 of the measure is a 16-item series of Likert measures assessing what the participant believed their coping responses would achieve. The scale assesses four functional coping dimensions: approach functions (dealing directly with the problem, e.g., 'To what extent did this/these activities allow you to directly deal with the problem?'), avoidance (allowing the individual to ignore the existence of the situation, e.g., 'To what extent did this/these activities allow you to learn more about yourself and others?), emotional regulation (dealing with the emotional consequences of a problem, e.g., 'To what extent did this/these activities enable you to deal with any emotional upset caused by the event??') and reappraisal functions (readdressing and reinterpreting the meaning of a situation, e.g., 'To what extent did this/these activities allow you to grow and develop as a person?').

Item scores are summed; higher scores indicate higher endorsement of coping function. The measure exhibits good internal reliability and construct validity. Internal consistency for FDC subscales in the present study was acceptable to good (approach, $\alpha = .810$; avoidance, $\alpha = .763$; emotion regulation, $\alpha = .790$; reappraisal, $\alpha = .845$).

Depressive and Anxious symptomatology. Depressive and anxious symptomatology experienced across the previous week was assessed via the Hospital Anxiety And Depression Scale (HADS; Zigmond and Snaith, 1983). The 14-item scale is a valid and reliable measure of emotional disorder and is frequently used in both hospital and community settings. Item scores are summed; higher scores indicate increased symptomatology. Internal consistency for subscales in the present study was adequate to good (depression, $\alpha = .822$, anxiety, $\alpha = .754$).

Self-harm.

Eligibility. Initial eligibility for inclusion into the study was determined via a modified Inventory of Statements about Self-Injury (ISAS) (Klonsky and Glenn, 2009; Klonsky and Olino, 2008). In the original format the ISAS captures only non-suicidal self-injury. In the current study the need for an absence of suicidal intent was omitted, as taxometric procedures and consistency tests indicate that the latent structure of self-harmful behaviours is dimensional rather than dichotomous (Orlando et al., 2015). As such, non-suicidal self-injury may not represent a discrete typology.

All participants indicated that they had, in their life, "intentionally (i.e., on purpose)" engaged in at least one of the following behaviours; cutting, biting, burning, carving, pinching, pulling hair, severe scratching, banging/hitting self, interfering with wound healing, rubbing skin against rough surfaces, sticking self with needles or swallowing dangerous substances. As the study sought to understand how functional coping dynamics relate to ideation and enactment in those with a recent history of self-harm, participants were eligible for inclusion only if they reported at least one self-harm episode having occurred within the three month preceding participation.

Self-harm status in response to a recent stressor. Self-harm status, in response to the stressor reported, was determined by the qualitative coping responses captured by stage 2 of the Functional Dimensions of Coping scale (FDC; Ferguson and Cox, 1997). The measure assessed both thoughts and behaviours employed in response to the stressor. Participants were classified into three groups: no 'self-harm', 'self-harm enactment' and 'self-harm ideation' (in response to the stressor described). Group memberships were mutually exclusive.

Self-harm enactment'. Participants who reported 'self-harm*'and/or indicated engaging in one or more of the following behaviours in response to the stressor were indicated in the 'self-harm enactment' group: banging/ hitting self; biting; burning; carving; cutting; wound picking; needle-sticking; pinching; hair pulling; rubbing skin against rough surfaces; severe scratching and overdosing. The list was adapted from the Inventory of Statements about Self-Injury (ISAS) (Klonsky and Glenn, 2009; Klonsky and Olino, 2008)

This definition of self-harm excluded eating pathology (e.g., restrictive eating, binge/ purge behaviour, etc.) and substance use/ misuse (e.g., alcohol, illicit substances, etc.) unless further specified as an intentional overdose. If participants noted their behaviour as a suicide attempt, this was recorded.

Self-harm ideation'. Participants were included in this group if they reported thoughts, urges or a drive to self-harm but did not report acting on these cognitions. This included participants who reported actively resisting an urge to engage and those who wanted to harm but were prevented by circumstance (e.g., when access to means was restricted, when they were not alone, etc.). If participants noted a wish to die in relation to their thoughts of harming, or a wish to be dead, this was recorded.

Data Analysis

Data were analysed using SPSS V21 for Windows. Kolmogorov-Smirnov and Shapiro-Wilk tests indicated that all independent variables were not normally distributed. Therefore, non-parametric analyses were conducted throughout. Furthermore, the use of nonparametric statistics negates concerns regarding markedly unequal group sizes. Spearman's Rho correlations were conducted to explore the relationship between depressive and anxious symptomology and functional coping dynamics across the sample. A series of (univariate) Kruskal-Wallis tests were conducted to directly compare the self-harm groups (no self-harm vs. ideation vs. enactment) in terms of anxious and depressive symptomatology and the endorsement of functional coping dynamics. Mann Whitney U tests were performed to establish where the differences lay. Following this, coping functions and depressive and anxious symptomatology were entered into hierarchical multinomial logistic regression analyses (reference group, no self-harm; reference group, self-harm enactment). This analysis was selected given that (i) the data were skewed, requiring a non-parametric approach (ii) there are more than two groups in the dependant variable (iii) we wanted to assess whether coping functions improved the ability to predict group membership (no self-harm; ideation; enactment) after adjusting for depression and anxiety. In the first step, depressive and anxious symptomatology were entered. In the second step, coping functions (approach; avoidance; emotion regulation; reappraisal) were also included in the model. Odds ratios (OR) indicate the likelihood of group membership (ideation vs. no self-harm; enactment vs. ideation; ideation; vs. enactment).

Results

Preliminary Analyses

Participants reported a diverse range of stressors. Example events reported included family members receiving medical diagnoses, being contacted by a perpetrator of past sexual abuse dealing with exams and debt, and taking public transport.

Few participants disclosed a wish to die or to be dead (4.7%, n = 54). Suicide attempts were also infrequently reported in response to the index stressor (1.5%, n = 17). Given i) the lack of adequate statistical power to meaningfully explore suicide attempts and self-harm independently, and ii) recent research indicating that self-harm occurs along a continuum of suicidal intent (Orlando et al., 2015), groups were collapsed. All analyses consider self-harm ideation and enactment regardless of intent. Over half of participants had self-harmed in response to the stressor they described (56.2%, n = 650). A minority reported self-harm ideation (4.3%, n = 50) and 39.5% (n = 457) reported no thoughts of self-harm or self-harm behaviour (no self-harm).

Participants within the sample had established histories of self-harm, reporting engagement over 2 – 34 years (*Median* = 4.00, IQR = 3.00). The majority of the sample reported high frequencies of behaviour engagement (*Median* = 310.00, IQR = 772.50): over forty percent of participants reported 101-500 self-harm episodes during their lifetime (42.3%, n = 489), with a further four hundred and fifty participants having self-harmed more than 500 times (38.9%). Around twenty percent of participants reported engaging 100 times or less (1-5 episodes, .7%, n = 8; 6-50 episodes, 8.5%, n = 98; 51-100 episodes, 9.7%, n = 112).

A series of Spearman's Rho correlations were conducted to explore the relationship between depressive and anxious symptomology and functional coping dynamics across the sample. Depressive symptomatology was positively associated with the endorsement of avoidance coping, r(1157) = .108, p<.001 and negatively associated with both approach, r(1157) = -.231, p<.001 and reappraisal coping functions, r(1157) = -.306, p<.001. A consistent pattern of significant associations were observed for anxious symptomology (avoidance, r(1157) = .059, p = .046; approach, r(1157) = -.178, p<.001; reappraisal, r(1157)= -.217, p<.001).

Do Coping Functions Differentiate Between Self-Harm Groups?

<<Insert Table 1 about here>>

Kuskall-Wallis and Mann Whitney U tests. The Kruskal-Wallis tests indicated statistically significant differences between self-harm groups (no self-harm; ideation; enactment) on depressive and anxious symptomology and all four coping functions (see Table 1). A series

of Mann Whitney U tests were performed to establish where the differences were. The no self-harm group were lower in depressive symptoms and higher in reappraisal coping than those in the ideation group. The no self-harm group were also lower in depression, anxiety, avoidance and emotion regulation coping than the enactment group and higher in approach and reappraisal coping. Participants who self-harmed in response to the stressor they described (enactment) reported higher endorsement of emotion regulation and avoidance coping than those who thought of harming, but did not act (ideation) (see Figure 1).

<<Insert Figure 1 about here>>

Hierarchical multinomial logistic regression. Results of the hierarchical multinomial logistic regression analyses are presented in Table 2. In step one, anxious and depressive symptomatology were entered. This model was statistically significant ($\chi^2(4) = 66.07, p$ <.001), but explained only a small amount of variability (Pseudo R²; Cox and Snell = .06; Nagelkerke = .07; McFadden = .04). Both self-harm groups (ideation and enactment) were significantly different in depressive symptomatology to those who did not have self-harm thoughts or behaviours in response to the stressor described (no self-harm). There was no significant difference between the ideation and enactment group in level of depressive symptoms reported. The three groups were not significantly different in anxious symptomatology.

<<Insert Table 2 about here>>

In the second step, functional coping dynamics were added to the regression model. This resulted in a substantial Pseudo R^2 increase (Cox and Snell = .21; Nagelkerke = .26; McFadden = .14; Model $\chi^2(12) = 273.68$, p < .001). Participants in the enactment group were significantly different from those in the no self-harm group in depressive symptomology and the endorsement of approach, emotion regulation and reappraisal coping. Those in the no self-harm group also differed from the ideation group in reappraisal coping. Emotion regulation coping distinguished ideation and enactment groups.¹

Discussion

The present study is, to the best of our knowledge, the first exploration of functional coping dynamics in relation to self-harm ideation and enactment. Our results suggest that functional coping dynamics may be differentially associated with self-harm ideation and enactment in those with recent self-harm. This is important, given that understanding the transitions between ideation and enactment has been identified as a critical frontier in suicide prevention (Klonsky and May, 2014).

Results of the univariate analyses indicated that avoidance and emotion regulation coping functions differentiated ideation and enactment groups, as well as the enactment group from those with no self-harm experience in relation to the stressor described. Multivariate regressions indicate that functional coping dynamics make a significant contribution to variability explained, beyond anxious and depressive symptomology. Reappraisal coping distinguished those with self-harm experiences in relation to the identified stressor (ideation and enactment groups) from those with no self-harm experience. Approach and emotion regulation coping distinguished those who self-harmed (enactment) from those with no self-harm experience in response to the stressor described. Importantly, the endorsement of emotion regulation coping also distinguished those who thought of

¹ One thousand and thirty-eight participants indicated that they were aged 25 years or younger. All analyses were re-run to include just these young people. No differences in the direction of effects were observed when older participants were excluded for the analyses. However, the difference in endorsement of reappraisal coping between ideation and no self-harm groups fails to reach statistical significance (p = .067).

harming (ideation) from those who acted (enactment). However, the observed odd ratios were small.

In addition to exploring whether functional coping dynamics differentiate self-harm experiences in response to the stressor, the study aimed to describe the frequency of selfharm ideation and enactment in response to recent stressors, in participants with recent selfharm. There is a paucity of research proving 'basic' information regarding the natural phenomenology of self-harmful thoughts and behaviours (Nock et al., 2009), including information as to when self-harm experiences are more likely to occur. That said, given that 1) self-harm represents a means of coping, 2) all participants had self-harmed in the last three months and 3) this study considered coping following the most stressful event within that 3 month timeframe, it could be anticipated that both self-harm thoughts and behaviours would be highly prevalent within the responses collated. Additionally, the sample comprised of relatively high frequency and established self-harm. This is pertinent given that theoretical accounts (Chapman et al., 2006) and empirical evidence (Wadman et al., 2016) suggest that self-harm can become habitual and ingrained with repetitive engagement, with the potential for perceived dependency to develop. However, despite the sample profile and high risk of repetition, 41 % of participants reported no self-harm experience(s) in response to their most significant stressor. That is to say, they did not report self-harming, nor did they report thinking about harming. Even with a recent history of self-harm, self-harming is not an inevitable outcome when an individual is exposed to a significant stressor.

This is an interesting finding, demonstrating that, for a significant minority, self-harm happened not in response to the identified major stressor but in response to an event they considered 'less significant'. This could be taken to highlight the unpredictable nature of self-harm thoughts and behaviours and the need for awareness that seemingly innocuous events may have a profound impact as a tipping point for enaction. Furthermore, it could suggest that, for many people, self-harm thoughts and behaviours may be a consequence of an endurance or accumulation of more minor day-to-day stressors, such that a seemingly less significant event serves as 'the straw that broke the camel's back'. This may be in line with theoretical accounts which posit distress tolerance as a key moderator in self-harmful behaviour engagement (Chapman et al., 2006). This finding has practical implications; it may not be possible for an individual to anticipate more vulnerable periods, given that they may occur in response to day-to-day stressors as well as more 'significant' events. Therefore, it is of paramount importance that individuals have ready access to sources of support and that both informal and formal support networks are able to identify and respond appropriately to signs of distress. The co-production of a safety plan may aid in this, given that this facilitated process empowers individuals to explore alternative coping strategies, plan possible coping routes in advance and identify and utilise external sources of support in moments of difficulty/crisis (Stanley and Brown, 2012).

Limitations

While the study offers novel insight into the functional coping dynamics underpinning self-harm ideation and enactment in those with recent self-harm, it is important that a number of key limitations are noted. The primary limitation of the work is the cross-sectional nature of the study, precluding the ability to make inferences regarding causality; the collection of 'real time' data and longitudinal protocols would be optimally placed to explore these dynamics more fully.

The study defined 'recent' self-harm as behaviours in the last 3 months. This timeframe was determined so as to minimise the biases associated with long-term retrospective recall, while optimising the probability of capturing a range of experiences, so as to meaningfully compare ideation, enactment and no self-harm groups. However, it is important to acknowledge that there is no agreed definition of 'recent' self-harm. Indeed,

previous research has operationalised 'recent' using a range of arbitrarily defined cut-offs (Brown et al., 2007). It is unclear whether adopting an alternative recency threshold would affect the pattern of significant findings. Therefore, future research exploring these dynamics would make a novel contribution to the extant literature.

The study aimed to recruit a diverse community-based sample. While the study was advertised on a variety of platforms (e.g., e-mail listings, social media, poster advertisements) it is not known what proportion of the sample were Psychology undergraduates. The age of participants ranged from 16 to 49 years, however the majority were young (18.21 years) and female (79.9%). This may reflect the disproportionate prevalence of self-harm in this age group (Hawton, Saunders, & O'Connor, 2012; Madge et al., 2008). However, it is important to explore the relationship between functional coping dynamics and self-harm ideation and enactment across other demographic groupings, not least as both gender (Avero and Calvo, 1999; Karekla and Panayiotou, 2011) and age (Nielsen et al., 2016) are associated with the endorsement of coping. Further, when considering the nature of the sample, it is pertinent to note that while the length of time since first episode self-harm provides useful descriptive information in so far as to typify the current sample, information was not collected about periods of abstinence or breaks in self-harm enactment within given histories. Indeed, fluctuation and pauses within engagement histories are common. Moreover, there is a lack of consensus regarding how, or indeed whether, these fall within conceptualisations of recovery (Wadman et al., 2016).

Few participants in the current study reported a wish to die or a wish to be dead (4.7%) and suicide attempts were also infrequently reported (1.5%). Investigating targeted samples of individuals with high suicidality and those actively seeking to resist urges to self-harm may be a valuable extension of the extant research. Further, while the sample size was large, the achieved self-harm ideation-only group was relatively small. Previous researchers

have reported a marked difficulty in recruiting adequate numbers of participants who think about harming themselves, but have never acted (e.g., Hooley et al., 2010). It is therefore of interest to note that this difficulty is also apparent when considering those who have a lifetime history of self-harm, but are being recruited for their recent ideation. The small odds ratios observed in this current study, despite the large overall sample size, highlight the need for adequately powered research. Therefore, it is pertinent to consider why this difficulty in recruiting to ideation groups prevails.

While tentative, a number of potential explanations are noted. Firstly, the sample size may, in part, be a product of the definition of 'recent' employed. Research evidence suggests that, if repeated, there is often a very short time period between self-harm episodes (Owens et al., 2015). Therefore, it could be suggested that the 3 month timeframe increases the probability of capturing enactment. If true, an extended (e.g., 6 months, 12 months) definition of 'recent' self-harm may be more optimally placed to capture ideation.

Secondly, the sample characteristics may be attributable to self-selection biases. The questionnaire was advertised as, 'part of an on-going project investigating *coping function and self-harm*'. While the information provided highlighted the aim to understand a range of self-harm experiences, researchers conducting similar work may wish to explicitly state this in the study title. Employing a staged, more targeted advertising approach may also aid in the recruitment of participants with a range of self-harm related experiences e.g., (1) 'general advertising' (e.g., Research opportunity: Emotions and wellbeing), (ii) 'mid-level advertising', aiming to recruit those with thoughts of harming (e.g., Research opportunity: Emotion, self-harm thoughts and behaviour) and (iii) 'direct advertising', aiming to recruit those who have self-harmed. This could include consideration of recency of self-harm (e.g., Research opportunity: Have you self-harmed in the last month? Research opportunity: Recent self-harm, emotions and wellbeing.)

Finally, given the lack of conceptual clarity, participants may be less certain about what constitutes a self-harm 'thought' than an episode of self-harm behaviour, and consequently be less confident in reporting these experiences. While anecdotal, in our experience it is not uncommon for participants in laboratory-based research to comment that they are not sure if an experience 'counts', when reporting self-harm thoughts and urges. Often this apparent uncertainty appears rooted in the frequency or intensity of the experience. Therefore, increased conceptual clarity and the development of a more nuanced account of key constructs may be an important step in research aimed at understating the process underpinning, and transitions between, ideation and enactment.

The findings of the present study must be interpreted within the context of our operationalisations. The definition of ideation included participants who reported actively resisting an urge to engage and those who wanting to harm but were prevented by circumstance (e.g., when access to means was restricted, when they were not alone, etc.). While the present study did not afford the possibility to explore these potential subgroups due to the small numbers reporting ideation, future research should consider whether divergent coping dynamics underpin these profiles.

Conclusion

Notwithstanding these limitations, this study offers novel insight into the relationship between the functional coping and self-harm, in those with recent self-harm. Additionally, and for the first time, the study explores these relationships in both self-harm ideation and self-harm enactment. Taken together, results indicate that functional coping dynamics may be differentially associated with self-harm thoughts and behaviour. This study also contributes novel insights into the *'whens'* of self-harm, suggesting that seemingly innocuous events may have a profound impact as a tipping point for enaction. This has implications for clinical practice, including the co-production of safety plans.

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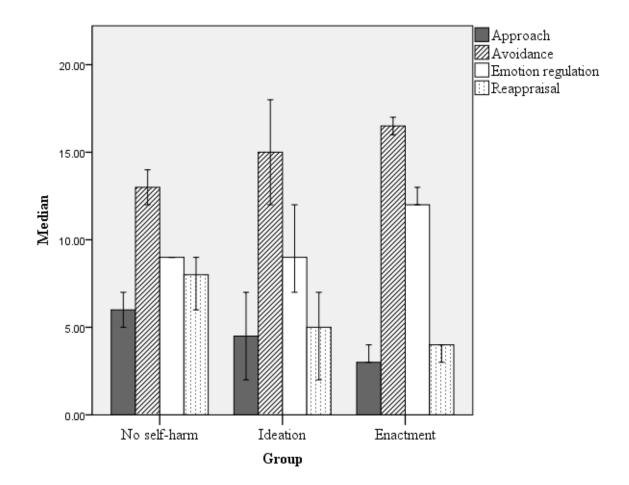


Figure 1. Median endorsement of coping functions across self-harm groups (no self-harm vs. ideation vs. enactment). Error bars = 95% CI.

Table 1. Descriptive statistics, Kruskal-Wallis and Mann Whitney U tests comparing anxious and depressive symptomatology and the
endorsement of functional coping dynamics between no self-harm ($n=457$), ideation ($n=50$) and enactment ($n=650$) groups.

Variable	No self-harm (N)		Ideation (I)		Enactment (E)		χ^2	Significant differences (r)		
	Mdn	IQR	Mdn	IQR	Mdn	IQR				
Depression ^a	9.00	7.00	11.00	6.00	11.00	6.00	57.23***	N <i (14)**;="" (22)***<="" n<e="" td=""></i>		
Anxiety ^a	14.00	6.00	14.50	4.25	15.00	5.00	19.25***	N <e (13)***<="" td=""></e>		
Approach ^b	6.00	10.00	4.50	7.00	3.00	7.00	54.49***	N>E (22)***		
Avoidance ^b	13.00	12.00	15.00	13.00	16.50	8.00	58.80***	N <e (08)*<="" (23)***;="" i<e="" td=""></e>		
Emotion regulation ^b	9.00	8.00	9.00	8.00	12.00	7.00	79.45***	N <e (13)***<="" (26)***;="" i<e="" td=""></e>		
Reappraisal ^b	8.00	13.00	5.00	8.00	4.00	7.00	69.92***	N>I (11)*; N>E (25)***		

Note. Mdn = Median, IQR = Inter-Quartile Range, ^aDepressive and anxious symptomatology, as measured by the HADS, ^bFunctional coping dynamics, as measured by the FDC scale, * denotes significance at p < .05, **significance at p < .01,***significance at p < .001. All analyses survive Bonferroni correction for multiple comparisons ($\alpha = .017$).

Table 2. Hierarchical multinomial logistic regression exploring whether functional coping dynamics, anxious and depressive symptomatology

	Ideation vs. No self-harm			Enactment vs. No self-harm			Ideation vs. Enactment		
Step	В	SE	OR	В	SE	OR	В	SE	OR
-			(95% CI)			(95% CI)			(95% CI)
1 Depression ^a	.12	.04	1.13**	.10	.02	1.10***	.02	.04	1.02
			(1.04-1.21)			(1.07 - 1.14)			(.95-1.10)
Anxiety ^a	04	.05	.96	.03	.02	1.03	07	.05	.94
			(.88-1.05)			(.99-1.07)			(.86-1.02)
2 Depression ^a	.09	.04	1.10*	.07	.02	1.07***	.03	.04	1.03
			(1.01 - 1.19)			(1.03-1.11)			(.95-1.11)
Anxiety ^a	05	.05	.96	.03	.02	1.03	07	.05	.93
			(.87-1.05)			(.98-1.07)			(.85-1.02)
Approach ^b	.03	.05	1.03	05	.02	.95*	.08	.05	1.09
			(.94-1.14)			(.9199)			(.98-1.20)
Avoidance ^b	.01	.03	1.01	.01	.01	1.01	01	.03	.99
			(.96-1.06)			(.99-1.04)			(.94-1.05)
Emotion regulation ^b	.04	.04	1.04	.16	.02	1.18***	12	.04	.89***
			(.97-1.13)			(1.14-1.22)			(.8396)
Reappraisal ^b	09	.04	.92*	08	.02	.92***	01	.04	.99
			(.8599)			(.8996)			(.92-1.08)

predict self-harm experience, in response to a recent stressor.

Step 1, Model $\chi^2(4) = 66.07$, *p*<.001, Pseudo R² (Cox and Snell = .06, Nagelkerke = .07, McFadden = .04)

Step 2, Model $\chi^2(12) = 273.68$, *p* <.001, Pseudo R² (Cox and Snell = .21, Nagelkerke = .26, McFadden = .14)

Note. B = Estimate, OR= Odds Ratio, SE = Standard Error, ^aDepressive and anxious symptomatology reflecting each one-point increase, as measured by the HADS, ^bFunctional coping dynamics, as measured by the FDC scale, * denotes significance at p < .05, **significance at p < .01,***significance at p < .001.