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<td>Author(s)</td>
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What are the physical and psychological health effects of suicide bereavement on family members? Protocol for an observational and interview mixed-methods study in Ireland

Ailbhe Spillane,1,2 Celine Larkin,2 Paul Corcoran,1,3 Karen Matvienko-Sikar,1 Ella Arensman1,2

ABSTRACT

Introduction: Research indicates that experiencing the suicide of a relative can have a significant impact on family members’ emotional health. However, research incorporating the impact of suicide bereavement on family members’ physical health is sparse. This paper details the protocol for a mixed-methods study of suicide-bereaved family members. The study will primarily examine the physical and mental health needs of those bereaved by suicide. A secondary objective of the study is to describe the support service needs of family members bereaved by suicide.

Methods and analysis: A mixed-methods approach, using semi-structured interviews and self-report questionnaires, will be used. Interviews will be conducted with a group of 15–20 relatives who experienced suicide bereavement. This protocol will follow the COREQ checklist criteria for the reporting of qualitative research interviews. Thematic analysis will be used to examine experiences and impact of bereavement on psychological and physical health. Self-report quantitative data on well-being will be analysed using descriptive statistics.

Ethics and dissemination: Ethical approval to conduct this study has been granted from the Clinical Research Ethics Committee of the Cork Teaching Hospitals. Pseudonyms will be given to participants to protect anonymity. It will be explained to participants that participation in the study is voluntary and they have to right to withdraw at any time. The findings of this research will be disseminated to regional, national and international audiences through publication in peer-reviewed international journals and presentations at scientific conferences. This research also forms part of a PhD thesis.

INTRODUCTION

Approximately 800 000 people die by suicide annually, resulting in an estimated 48–500 million people experiencing suicide bereavement every year worldwide.1 2 Suicide and self-harm can have a significant impact on family members’ emotional and social functioning.3–6 Suicide bereavement is associated with a number of adverse mental health outcomes, including depression, psychiatric admission and suicide attempts.1 3 6 7 However, research examining the physical health effects of suicide bereavement is sparse.

It is increasingly recognised that negative psychological factors, including depression, are implicated in the development and advancement of cardiovascular disease (CVD).8 9 Stressful life events also impact physical health,10 and the experience of bereavement in particular is associated with negative health outcomes.11 Bereavement is not only associated with an excess risk of mortality but also physical ill-health and negative psychological reactions and symptoms.
including mental disorders or complications related to the grieving process.\textsuperscript{11} There is also emerging evidence of the effect of suicide bereavement on physical health: for example, a recent case–control study found that suicide-bereaved parents have a higher risk of CVD, hypertension, diabetes and chronic obstructive pulmonary disease (COPD).\textsuperscript{6} Given the increased risk of poor health among those experiencing bereavement and mental health problems, more research is required into the physical health sequelae of suicide bereavement. The majority of extant studies on this topic are quantitative in nature.\textsuperscript{6, 8–15} Therefore, qualitative research is required to fully understand and effectively respond to the needs experienced by people affected by the suicide of their family member.\textsuperscript{16}

The impact of suicide on the individual, family and social life

People bereaved by suicide are at increased risk of negative physical outcomes, including CVD, COPD, hypertension, diabetes and pancreatic cancer.\textsuperscript{6, 7} Nevertheless, these findings are only evident from a small number of empirical studies, with much of the research focusing on mental health outcomes following suicide bereavement.\textsuperscript{1, 3} People bereaved by suicide are also at increased risk of suicide, depression and psychiatric admission as has been demonstrated by the findings of population-based registers/registry studies.\textsuperscript{1, 6, 17} In terms of findings related to substance use, two systematic reviews did not find any excess risk of substance misuse among people bereaved by suicide,\textsuperscript{1, 18} while another case–control study did not find any differences in substance misuse between suicide and accident-bereaved parents.\textsuperscript{6} Even though one study found an increased risk in offspring bereaved by suicide, this analysis was not adjusted for preloss substance misuse.\textsuperscript{17} Recent systematic reviews found that studies comparing stigma scores were methodologically problematic due to unadjusted analyses and that when research was specifically comparing suicide bereavement and other violent causes of death, the only differences noted were on rejection and shame.\textsuperscript{1, 19} Notably, a large cross-sectional study in the UK found significantly higher levels of stigma, shame, guilt and responsibility in people bereaved by suicide compared with those bereaved by other sudden deaths in adjusted analyses.\textsuperscript{20}

Existing qualitative studies

Although there are a number of qualitative studies examining various aspects of suicide bereavement, including experiences,\textsuperscript{21} stigma\textsuperscript{22} and sense/making,\textsuperscript{23} so far no study has examined the physical and psychological experiences and support needs of people bereaved by suicide.

Subsequent to suicide bereavement, parents hiding their grief and emotions is a common theme throughout the literature.\textsuperscript{21} Fear of judgement and stigmatisation was the most common reason cited for not seeking professional support following a suicide bereavement.\textsuperscript{25} Similarly, parents describe struggling to speak about their child in public, as they felt it is frowned on and is too morbid.\textsuperscript{24} This avoidance of grief-related emotions may prevent relatives from engaging in meaning-making, whereby they assimilate the death of their loved one into their new reality.\textsuperscript{20} A lack of engagement in meaning-making may increase the risk of developing complicated grief.\textsuperscript{24} \textsuperscript{27} \textsuperscript{28} While bereavement due to suicide and sudden death can be devastating for families, adjustment to the death is still possible. Talking about the deceased is thought to be an important part of the grief process and some parents have found it valuable to recall the deceased as he/she had been.\textsuperscript{29} An interpretative phenomenological study identified that adults bereaved by suicide can undergo post-traumatic growth (PTG).\textsuperscript{30} PTG can be defined as heightened levels of personal development reached in the aftermath of trauma\textsuperscript{31} and is associated with better mental health outcomes in people bereaved by suicide.\textsuperscript{32} People bereaved by suicide undergoing this process report developing greater awareness of their existence in the world and understanding what mortality means to them, facilitating a desire to make the most out of life.\textsuperscript{30} PTG should be normalised, so that the suicide bereaved can explore how they have altered and changed without feeling further stigmatised or judged.\textsuperscript{30} Sometimes, bereaved people may experience relief\textsuperscript{33} following a family member’s suicide if there was ongoing mental health and/or physical health problems over many years. It is therefore essential to understand the complex and sometimes contradictory experiences of suicide bereavement and grief in order to better help people express their emotions and potentially promote PTG.

Current study

It is clear that suicide bereavement has an impact on health and mortality, with those affected at increased risk of suicide and psychiatric admission.\textsuperscript{1, 6} Yet most of this research is quantitative in nature. A more nuanced understanding of why these help problems arise is necessary. Qualitative research would best help to explain some of the mechanisms of poor health outcomes. In addition, qualitative methodologies will help develop a better understanding of the perspectives of the individual family members.\textsuperscript{16} The current mixed-methods study, which is a follow-up to the Suicide Support and Information System—A Case–control Study (SSIS-ACE), will address this gap in the literature. The aim of the SSIS-ACE study is to improve knowledge surrounding the specific psychosocial, psychiatric and work-related risk factors associated with suicide in Ireland. The SSIS-ACE study incorporates two interlinked case-control studies: one study comparing suicide cases with general practice patient controls, and the other study comparing cases of high-risk suicidal behaviour with general practice patient controls. The SSIS-ACE study
included suicide decedents as cases and relatives as informants to better understand the decedents risk and protective factors through a psychological autopsy interview approach. The current study includes relatives as cases to understand how being bereaved by suicide or an open verdict death has impacted them physically and emotionally. Therefore, the focus of the SSIS-ACE study was on the deceased, whereas the focus of the present study is on the family member and how they have been affected by the death. The primary aim of the current study is to follow-up relatives bereaved by suicide who had been recruited for the SSIS-ACE study, to examine how family members have been physically and psychologically affected by a relative’s suicide. A secondary objective of the study is to describe the support required by family members bereaved by suicide. Specific objectives for this study are as follows:

1. To understand the pathways by which physical and mental health problems might arise in family members bereaved by suicide.
2. To examine the broader familial and social impact of suicide bereavement for family members.
3. To examine participants’ experiences of health and support services and to understand what service provisions they consider important for the needs of family members after a suicide bereavement.
4. To assess emotional well-being among family members following suicide bereavement.

METHODS AND ANALYSIS

Theoretical approach

Pragmatism was chosen as the most appropriate philosophical underpinning for this study. Pragmatism aids in understanding how quantitative and qualitative methods can be combined successfully to best answer particular research questions.34 Pragmatism was chosen as an approach for the current study, as it was anticipated that multiple methods would be required in order to fully address the research objectives. A social constructionist perspective was adopted as the theoretical perspective for analysis in the current study. This theory posits that social processes underlie or are the building blocks for reality as this can have a significant bearing on how adaptive or maladaptive their grief reactions become, thereby affecting psychological and physical health outcomes.

Study design and setting

This exploratory mixed-methods study is a follow-up to a larger case-control study, which is examining the psychological, psychiatric and work-related factors associated with suicide in Ireland (SSIS-ACE, 2014–2017). The SSIS-ACE study began in January 2014 and will be completed by March 2017. The current study began in April 2016 and is envisaged to be completed by April 2017. Participants for the qualitative aspect of this study are drawn from the larger SSIS-ACE study. Interviews are conducted either at the offices of the National Suicide Research Foundation (NSRF) in Cork, in the participant’s home or in a neutral location. Only the researcher and the participant are present during the interviews. The location of the interview is determined by the participants according to their preference.

Sampling

All participants who completed the SSIS-ACE interview and who consented to further follow-up are invited to take part in the follow-up study. There was no relationship established prior to the initiation of the study. Participants were originally approached to participate in the SSIS-ACE study on the basis of being next-of-kin of persons who died by suicide or probable suicide. It is not unusual in suicide research to consider open verdict deaths, as research suggests a substantial number of these are thought to be suicides.37–39 Open (undetermined deaths) and narrative verdicts that met the Rosenberg criteria for a probable suicide are eligible for inclusion in the current study. The Rosenberg criteria for the determination of suicide state that ‘a death must have been self-inflicted, which may be determined by a number of means including autopsy, toxicology, psychological evidence and decedent and witness testimony’. Second, there must be evidence that the person intended to kill him/herself and understood the outcome of the action. Evidence of intent can include explicit verbal or non-verbal expressions of intent to take one’s life but can also include implicit or indirect expressions of intent to kill oneself, including:

- Inappropriate or unexpected preparations for death by the deceased,
- Expressing farewell or expressing a desire to die or acknowledging impending death,
- Expression of hopelessness,
- Expression of significant emotional or physical pain or distress,
- Efforts to learn about or procure means of death or to rehearse fatal behaviour,
- Precautions to avoid rescue,
- Evidence that decedent recognised high-potential lethality of means of death,
- Previous suicide attempt,
- Previous threat of suicide,
- Stressful events or significant losses (actual or threatened), or
- Serious depression or mental disorder.
A potential participant is excluded if they are aged younger than 18 years, if contact is deemed to pose a risk to the safety of the researcher (likely intoxication; history of or potential for violence) or the informant, or where capacity to consent may be limited due to cognitive dysfunction or severe mental illness. Recruitment will proceed to the point of data saturation, which is envisaged to involve interviewing and analysing transcripts from 15 to 20 participants. The use of eligibility criteria (Box 1) together with the inclusion of consecutive cases of suicide and probable suicide will provide a diverse sample of people bereaved by suicide.

Recruitment
As of April 2016, participants bereaved by suicide, who previously took part in the SSIS-ACE study, were invited by letter to participate. The letter explains that the researcher will contact the family member again 10 days after receipt of the letter to verify if there is a need for support and to provide further details about the study. It is clearly stated that the family member can inform the researcher (in writing or by telephone) if they do not wish to receive any further contact. The focus of the first telephone contact is to verify again if the family members would like to receive support. AS facilitated access to support for participants based on their specific needs. This is performed in consultation with a trained psychotherapist (PI, EA). The researcher also verifies if currently there are members of the family who are in need of support that has not yet been arranged. AS will contact each participant by phone 2–3 weeks after the conclusion of the interview to discuss any reflections or needs for support they may have following the interview.

Well-being (Depression Anxiety and Stress Scale) scale
To assess family member’s affective state, their well-being has been assessed using the 21-item version of the Depression Anxiety and Stress Scale (DASS). These data were collected as part of the SSIS-ACE study, where data collection occurred between June 2014 and September 2016. These data will be presented together with the qualitative interview data in the full publication in order to provide mental health, physical health and well-being outcomes for family members bereaved by suicide. The depression subscale covers dysphoria, hopelessness, devaluation of life, self-deprecation, lack of interest/involvement, anhedonia and inertia. Items related to anxiety are autonomic arousal, skeletal muscle effects, situational anxiety and subjective experience of anxious effect. Finally, items related to stress are difficulty relaxing, nervous arousal, being easily upset, irritability and impatience. This scale was completed at the end of the interview with the SSIS-ACE study. The DASS scale has been shown to successfully differentiate between the three negative affective states. In addition, this scale is consistent in clinical (those presenting themselves to anxiety and stress clinics for assessment and treatment) and non-clinical (community volunteers) samples. The scale has also been demonstrated to have excellent internal consistency in a large clinical sample, with the following Cronbach’s $\alpha$ value of 0.96, 0.89 and 0.93 for Depression, Anxiety and Stress, respectively. Another study of a clinical sample found similar Cronbach’s $\alpha$ values of 0.97, 0.92 and 0.95 for Depression, Anxiety and Stress, respectively.

Interviews
Interviews were started in April 2016. Semistructured interviews, with the use of a topic guide (Table 1), were conducted. Interviews were conducted in one sitting. These data will help to provide a comprehensive description of the sample in the full publication. Demographic data collected during the interview include gender, age, relationship to the deceased, ethnic origin, religion, marital status, employment status, education level and profession. Before the initiation of each interview, AS explained that the current research is essential due to the limited research conducted into the physical and psychological health effects of suicide and sudden death bereavement on family members in Ireland. The duration of each interview was ~1.5–2 hours. The aim of the interviews is to gain an in-depth understanding of the personal, familial and social impact of suicide bereavement on family members. The topic guide serves to guide the interviews, while not being prescriptive in nature. This allows scope to iteratively develop the topic guide in order to deal with issues that are most relevant to participants.

Participants were contacted 24 hours prior to the interview to ascertain if it was still convenient to meet with AS. Interviews were audio-recorded with permission of the participant. Field notes and memos were taken in order to provide context or to document initial thoughts or emerging themes identified by the interviewer. Characteristics and reasons of those who decline
to participate were noted and will be reported in the full publication.

**Data management (memos, field notes, verbatim transcription, etc)**

Interviews were transcribed verbatim by AS and other internal research staff. All participants were informed that an additional researcher may listen to the recording but are not provided with any additional information or have subsequent involvement in the study. The names of participants were replaced with pseudonyms when each interview was transcribed. Field notes were taken after interviews, which will facilitate the analysis process. A reflective journal was used to convey the main issues raised in the interviews, and served as preliminary analysis of the data.

### Table 1  Topic guide for family members bereaved by suicide/undetermined deaths

<table>
<thead>
<tr>
<th>Prompts</th>
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<tbody>
<tr>
<td><strong>Introduction</strong></td>
</tr>
<tr>
<td>▶ Family member’s relationship with deceased</td>
</tr>
<tr>
<td>How did you spend time together? What was that like for you?</td>
</tr>
<tr>
<td><strong>Impact of bereavement on family member</strong></td>
</tr>
<tr>
<td>▶ How they felt physically in the immediate aftermath of relative’s death</td>
</tr>
<tr>
<td>Were there any physical symptoms? How did this affect you physically?</td>
</tr>
<tr>
<td>▶ How their physical health was before and since their relative’s death</td>
</tr>
<tr>
<td>Presence of or new diagnosis of health condition? Worsening of existing health condition? Changes in diet, exercise, smoking, \ sleeping patterns or substance use?</td>
</tr>
<tr>
<td>▶ How their mental health was before and since their relative’s death</td>
</tr>
<tr>
<td>Feelings of stress or worry? New diagnosis of health condition?</td>
</tr>
<tr>
<td>▶ How has their sense of well-being been since their relative’s death</td>
</tr>
<tr>
<td>Experiencing positive thoughts? Experiencing negative thoughts?</td>
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<tr>
<td>▶ Had deceased ever harmed themselves before?</td>
</tr>
<tr>
<td>Were there any physical symptoms? How did this affect you physically?</td>
</tr>
<tr>
<td>▶ How did that make them feel?</td>
</tr>
<tr>
<td><strong>Familial and social impact of bereavement</strong></td>
</tr>
<tr>
<td>▶ How the death has affected their life</td>
</tr>
<tr>
<td>Social life/work life? Outlook on life?</td>
</tr>
<tr>
<td>▶ How the death has affected the family</td>
</tr>
<tr>
<td>Changes in familial relationships?</td>
</tr>
<tr>
<td>▶ How any physical illnesses experienced by the family member after the death has affected their social/work life</td>
</tr>
<tr>
<td><strong>Postvention</strong></td>
</tr>
<tr>
<td>▶ What supports they received from additional family and friends after the death of the family member</td>
</tr>
<tr>
<td>▶ Any support services they encountered, whether they found it helpful/unhelpful and why</td>
</tr>
<tr>
<td>▶ Any particular service they would like to see in immediate aftermath of relative’s death</td>
</tr>
<tr>
<td>▶ Any particular service they would like to see in medium to long term following relative’s death</td>
</tr>
<tr>
<td>▶ Do they have a message for:</td>
</tr>
<tr>
<td>▶ Healthcare professionals?</td>
</tr>
<tr>
<td>▶ Mental health services or counsellors?</td>
</tr>
<tr>
<td>▶ Others who have been bereaved?</td>
</tr>
<tr>
<td>▶ People contemplating suicide?</td>
</tr>
<tr>
<td>Anything to add before conclusion of interview?</td>
</tr>
</tbody>
</table>

**Data analysis**

**Quantitative analysis**

Participant’s demographic information and descriptive statistics, including mean scores, will be calculated for the well-being data and will be presented in the full publication.

**Qualitative analysis**

Data will be analysed using thematic analysis. Thematic analysis was chosen as it allows for a theoretically flexible approach, while also being a flexible tool to analyse data in a rich and detailed way. Thematic analysis will be carried out in six phases: familiarising oneself with the data, generating initial codes, searching for themes, reviewing themes, defining and naming themes and finally, compiling a report of the analysis. Themes will
be derived from the data. Data saturation is a complex element of qualitative research and one that has been the focus of much debate and discussion. While it is somewhat difficult to determine sample size for qualitative research a priori, it is nonetheless an increasingly important element of quality control. The initial analysis sample will have in total 12 interviews. This number was deemed adequate from previous research into the most likely point at which data saturation is reached, given a relatively homogenous sample. The stopping criterion will be set at further three interviews, in order to ensure that data saturation has been reached. Analyses will be facilitated by the use of NVIVO 11 to organise the data. AS will primarily code the interview transcripts to generate overarching themes to analyse and interpret the data. A second researcher will crosscheck codes generated by AS for a number of interviews in order to ensure credibility and consistency. A description of the coding tree will be provided for transparency. Quotations will be presented, together with the corresponding participant pseudonym to illustrate how each theme was derived from the data. Major themes and their related subordinate themes will also be illustrated. Owing to the lack of standardised guidelines to report mixed-methods protocols, the Consolidated Criteria for Reporting Qualitative Research (COREQ) checklist will be used. This checklist was chosen as the qualitative component is the primary focus of this research. It was not deemed appropriate to return transcripts to participants for comments or corrections due to the highly sensitive nature of the research topic.

Validity and reflexivity

Discordant findings or those that run contrary to generated themes will also be presented. The first author of this protocol (AS) will conduct all of the interviews for this study. She is a PhD student, with a Masters in Public Health and is experienced in the area of mental health research. She has received specialised inhouse training from the NSRF in preparation for conducting these interviews. This training included how to communicate with people at risk, understanding the risk and protective factors associated with suicide and identifying and effectively dealing with someone at risk of suicide. The researcher receives weekly supervision from the PI, EA. EA is a trained psychotherapist who is specialised in suicidology and can assess individual cases if necessary. EA will undertake any clinical needs assessment with participants, if necessary, in consultation with AS.

DISSEMINATION

Respect for autonomy

Participants have given their written permission as part of the previous SSIS-ACE study to be reapproached in the future by a member of the research team. Prior to the initiation of the interview, it is explained that this study is a follow-up to the SSIS-ACE study that they previously took part in. The reasons for carrying out this research are explained to participants. It is explained to participants that confidentiality will be maintained within the research team, but will be broken in certain circumstances, including disclosure of child sexual abuse or threats to harm oneself or someone else. Before initiation of any interview, the participant is asked to carefully read through a detailed participant information sheet. They are if they understand the detailed information sheet and any questions they have are answered by the researcher. They are then be asked to complete a consent form and given a copy of this to keep. The minimum age for a participant is 18 years of age.

While those who are approached to participate in this study have given consent to future contact, it is clearly explained to them that there is no obligation to participate. In addition, it is highlighted that they are free to withdraw from the study at any time. Each person in the study will be offered facilitation of support by AS in consultation with the PI.

Beneficence and non-maleficence

Owing to family history of suicidal behaviour, participants are at increased risk of suicidal behaviour themselves. AS has undertaken specialised inhouse training from the NSRF based in Cork, in relation to responding to distress and risk in the context of telephone and face-to-face contact with participants and in identifying the indicators of acute suicidality. If necessary, AS can facilitate assessment by a psychotherapist (PI; EA).

For family informants bereaved by suicide, being approached to take part in a research study may be perceived as positive. Benefits include facilitation of additional support when required, and the opportunity to discuss their relative with a trained interviewer in a supportive atmosphere. The family informants may also derive satisfaction from contributing to the evidence surrounding the experiences and support needs of people bereaved by suicide. A recent study of interviews with vulnerable populations explored experiences of participating in suicide and self-harm research. They found that participants were far more likely to derive benefit from participation than to experience negative effects. A recent systematic review sought to investigate the commonly held perception that asking about suicidality in either a research or clinical setting can increase suicidal tendencies. The review concluded that acknowledging and talking about suicide can actually reduce, rather than increase suicidal ideation. Moreover, talking about suicide and suicidal ideation may lead to an improvement in mental health in treatment-seeking populations.

DISSEMINATION

The findings of this research will be disseminated to regional, national and international audiences through
publication in peer-reviewed international journals and presentations at scientific conferences. The authors will produce one main mixed-methods outcome paper from this study on the analysis proposed, with the possibility of another paper exploring the impact of the inquest process on family members, depending on time constraints. This study also forms part of a PhD thesis for AS.

CONCLUSION
The main aim of this research is to examine how family members have been physically and psychologically affected by a relative’s suicide, while also providing an in-depth description of the impact of the death on their personal, professional, familial and social lives. In addition, a description of the support service needs required by family members bereaved by suicide serves as a secondary objective of the study.

Contributors AS drafted the initial protocol document; AS, CL, EA and PC contributed to the design of the study; KM-S, PC and EA contributed to planned analyses; KM-S, CL, EA and PC contributed to revising drafts. All authors contributed to the final manuscript.

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Competing interests None declared.

Ethics approval Clinical Research Ethics Committee of University College Cork, reference number: ECM 4 (o) 19/01/2016.

Provenance and peer review Not commissioned; externally peer reviewed.

Data sharing statement The data recorded, transcribed and analysed will be very sensitive in nature. Owing to the relatively small number of participants and the specific geographic location, it would not be appropriate to consider data sharing due to the risk of people being potentially identified.

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