# Developing the Pieta House Suicide Intervention Model: A quasi-experimental, repeated measures design

Surgenor, PWG\*1, Freeman, J2 & O'Connor, C3.

1, 2, 3 Pieta House, 6 Main Street, Lucan, Co. Dublin, Ireland

\* Corresponding author

## Email addresses:

PWGS: paul.surgenor@pieta.ie

JF: joan.freeman@pieta.ie

C'OC: cindy.oconnor@pieta.ie

**Abstract** 

**Background:** While most crisis intervention models adhere to a generalised theoretical

framework, the lack of clarity around how these should be enacted has resulted in a

proliferation of models, most of which have little to no empirical support. The primary aim of

this research was to propose a suicide intervention model that would resolve the client's

suicidal crisis by decreasing their suicidal ideation and improve their outlook through

enhancing a range of protective factors. The secondary aim was to assess the impact of this

model on negative and positive outlook. Methods: A quasi-experimental, pre-test post-test

repeated measures design was employed. A questionnaire assessing self-esteem, depression,

and positive and negative suicidal ideation was administered to the same participants pre- and

post- therapy facilitating paired responses. **Results:** Multiple analysis of variance and paired-

samples t-tests were conducted to establish whether therapy using the PH-SIM had a

significant effect on the clients' negative and positive outlook. Analyses revealed a

statistically significant effect of therapy for depression, negative suicidal ideation, self-

esteem, and positive suicidal ideation. Negative outlook was significantly lower after therapy

and positive outlook significantly higher. Conclusions: The decreased negative outlook and

increased positive outlook following therapy provide some support for the proposed model in

fulfilling its role, though additional research is required to establish the precise role of the

intervention model in achieving this.

**Keywords** 

Suicide; Crisis; Intervention; Therapy; Model; Pieta House

-2-

# **Background**

## Introduction

A suicidal crisis requires an immediate and reliable intervention treatment. Unfortunately the dearth of intervention studies (Huisman, Pirkis, & Robinson, 2010) has limited our knowledge and options for empirically tested therapy models (Linehan, 2008). The aim of this paper is to propose an intervention model that will support individuals through their immediate and future suicidal crises, and then to ascertain the impact of engaging in this therapy model on levels of negative and positive suicidal outlook.

#### **Definitions**

Suicide research often suffers from definitional ambiguity (Linehan, 1997). Consequently, this research adheres to the definitions of suicide ("a conscious or deliberate act that ends one's life when an individual is attempting to solve a problem that is perceived as unsolvable by any other means") and suicidal behaviour ("the spectrum of activities related to suicide including suicidal thinking, self-harming behaviours not aimed at causing death and suicide attempts") used in the Irish National Strategy for Action on Suicide Prevention (National Office for Suicide Prevention, 2005).

The proposed model is to assist clients in a state of crisis, defined by Roberts as "a period of psychological disequilibrium, experienced as a hazardous event or situation that constitutes a significant problem that cannot be remedied by using familiar coping strategies" (Roberts, 2000) (p7). Consequently, the focus of this study is suicide intervention rather than prevention, with the former aiming to alter the course of existing ideation while the latter attempts to reduce the likelihood of risk or onset (Office of the Surgeon General (US); National Action Alliance for Suicide Prevention (US), 2012).

#### **Suicide Intervention at Pieta House**

Pieta House is an Irish suicide intervention charity that provides free counselling for those affected by suicide or deliberate self-harm. Therapy is founded on Shneidman's (1985) assertion that while part of the individual wants to die another part wants to live and, if navigated successfully, suicidal crises need not be fatal. The therapy model necessitated by Pieta House must therefore provide an effective and immediate intervention that can be shown to redress the client's wish to die and strengthen their will to live, a focus often neglected in intervention models (Ramsay, 2004). Furthermore, given that suicidal behaviour is a complex process resulting from an intricate interplay of biological, psychological, environmental and situational factors (Wasserman et al., 2012), there is a need for an element of flexibility to adapt the therapy to fulfil the individual needs of the client.

The underlying tenet of the proposed model is that the psychological turmoil (Shneidman, 1993) can be mediated by protective factors such as coping strategies, healthy lifestyles, physical exercise, personal value, self-confidence, and communication skills (Wasserman, 2001). The goal of therapy is to resolve the client's suicidal crisis and improve their outlook for the future by enhancing protective factors that enable them to overcome current and future crises.

## **Existing Crisis Intervention Methods**

Existing crisis intervention models provide something of a dichotomy. As Thomas and Leitner (2005) report current intervention models and standard protocol are rooted in the theoretical framework established by the Los Angeles Suicide Prevention Center in 1958. Consequently, while the number of stages varies from model to model (e.g., two stages

(Berman & Jobes, 1997), three stages (Stanley et al., 2009), or seven stages (Roberts, 1991), (Granello, 2010)) there is a considerable degree of consensus on the structure of the intervention: a pre-therapy; therapy and consolidation; and follow up. However, while this framework has been clearly established there has been less clarity around precisely how these should be enacted (Thomas & Leitner, 2005), resulting in a proliferation of differing approaches. This difficulty has been further confounded by a lack of empirical evidence.

Thomas, Allen, Harrell Woodson, Frueh, and Jobes (2009) reported that most suicidal patients are treated with unproven therapies, a sentiment echoed by Jobes (2013) who commented on the 'remarkably un-evolved and surprisingly limited' knowledge of effective intervention models and concluded that many approaches used have 'little to no empirical support' (p.127). Models that have been forwarded face the same difficulty of the original structures and protocols – a clear structure but lack of detail that makes replication impossible. For example, Sánchez's (2001) model incorporates both risk and protective factors that would facilitate risk assessment and the development of therapy interventions, but provided no details of how therapy should then be enacted.

Consequently the search for a flexible, yet clearly defined, evidence-based intervention therapy model with provision for both risk and protective factors proved to be unsuccessful.

Instead, a new therapy model is proposed below, and will be

## **Developing the Pieta House Suicide Intervention Model**

The proposed Pieta House Suicide Intervention Model (PH-SIM) is presented in Figure 1. In line with existing intervention models it has risk assessment (Pre-Therapy), therapy and consolidation (Therapy), and follow-up support (Follow-up) stages.

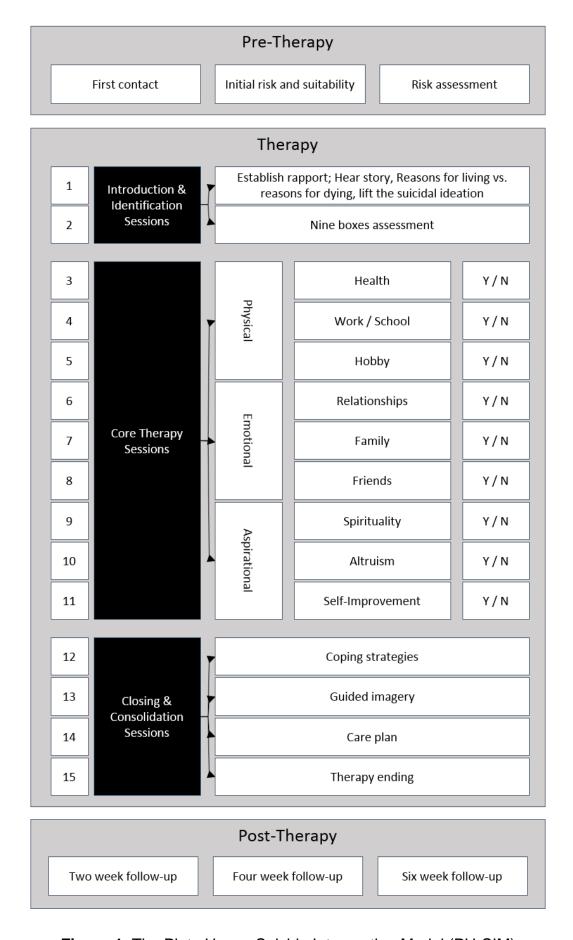


Figure 1: The Pieta House Suicide Intervention Model (PH-SIM)

## 1. Pre-Therapy Stage

While participation is encouraged for all there are some for whom therapy at Pieta House would be unsuitable due to their inability to engage in one-on-one dialectical sessions with a therapist. Clients are unsuitable for therapy if they suffer from severe mental ill-health, a severe intellectual disability or behavioural disorder, or an active alcohol or substance addiction. A comprehensive risk assessment is administered for new clients during an initial meeting where, based on Granello's (2010) suggestion of rearranging the traditional seating convention, clients sit on a comfortable chair while the therapist sits on a lower chair to emphasise the lack of hierarchy.

## 2. Therapy Stage

The core therapy sessions at PH involve developing the client's protective factors in diverse areas of their lives. This uses an adaptation of Jeffers' (1988) Nine Boxes to visually illustrate areas in which they have sufficiently developed, underdeveloped, or no protective factors.

The nine areas targeted by the model address physical, social, and aspirational needs, three components important for human contentment (Snyder & Lopez, 2002). The areas addressed by each stage of therapy is outlined below.

Sessions 1 and 2: The opening sessions are dedicated to hearing the client's story and establishing a rapport. This follows a 'listen, understand, validate' approach (Echterling, Presbury, & McKee, 2005) to establish a genuine, caring, and non-judgmental therapeutic environment where therapist and client work together to explore issues and solutions (Jobes, 2006). After initial discussions exploring reasons for living and for dying, and lifting their suicidal ideation, the Nine Boxes are introduced. This allows the therapist to guide the client through a collaborative process of identifying the areas in their life where they have adequate protective factors. Any area that is sufficiently developed need not be addressed in the course

of therapy. In this way the therapist and client co-create a bespoke therapy programme to specifically develop protective factors where they're needed most.

The environment plays an important part in the therapy process. The therapy centre is designed to resemble a comfortable family home rather than a formal clinical setting, with therapists receiving specific guidelines on all aspects of the therapy, such as the physical distance between the therapist and client (18 inches, the nexus point of personal space and personal distance (Thompson & Hickey, 2005), and tone of voice (slow, calm, controlled, and using short sentences and 'downspeak' (Bradford, 1997)).

Sessions 3 to 13: After the immediate suicidal crisis has been addressed and the areas for development identified, the next priority is to develop skills in these areas to promote recovery and safeguard against future crises (Stanley et al., 2009). The same approach is adopted for each of the three components, and involves the use of CBT, DBT, and problemsolving strategies. Approved CBT activities aim to change patterns of dysfunctional thinking and improve mood and behaviour (Furlong & Oei, 2002); DBT activities include mindfulness, validation, targeting and chain analyses as mechanisms of change (Cutcliffe & Santos, 2012) to aid in emotional regulation; and problem-solving activities aim to help identify effective means of coping with problems of everyday living (Cully & Teten, 2008). In each case concrete, solution-focused, achievable plans (Chiles & Strosahl, 2005) are jointly developed.

The three components and their associated protective factors are briefly discussed in turn.

## a) Physical Needs

Increased physical activity has been associated with improved cognitive functioning (Etnier, Nowell, Landers, & Sibley, 2006), better quality of life (Brown et al., 2004), and decreased suicidal ideation (Brown et al., 2007). The 'physical needs' component encapsulates three

factors: health, hobby, and employment. In the first of these a physical activity plan is devised and implemented in conjunction with friends and family members (Encrenaz et al., 2012). The 'hobby' factor aims to stimulate interest in previously enjoyable pursuits as a means of engaging in positive and affirming activities, and consolidating internal coping strategies (Stanley, Brown, Karlin, Kemp, & VonBergen, 2008). The link between suicidal ideation and unemployment/employment difficulties is well established (Corcoran & Arensman, 2011; Kposowa, 2001; Platt & Hawton, 2000; Wong et al., 2008) and the 'employment' factor involves assisting the client to positively appraise current employment issues or addressing concerns of unemployment.

### b) Emotional Needs

The client's emotional needs are explored through three factors: family; friends; and relationships. Research (Durkheim, 1952; Helliwell, 2007; Mignone & O'Neil, 2005) has provided an indication of the protection afforded by the social support afforded by family and community, and the risk factor of isolation and absence of a significant relationship (Granello, 2010). In the eventuality that a family connection or existing friendship cannot be identified, a relationship with any significant other is explored.

## c) Aspirational Needs

Clients are encouraged to explore at least one of the three factors of this component (spirituality, altruism, and self-improvement) with the aim of developing a sense of fulfilment, belonging, and worth. The term 'spiritualty' is used very loosely and refers to the beliefs or support structures that have been shown to provide a protective influence (Gearing & Lizardi, 2009; Hilton, Fellingham, & Lyon, 2002; Koenig, McCullough, & Larson, 2001; Linehan, Goodstein, Nielsen, & Chiles, 1983; Szanto, Mulsant, Houck, Dew, & Reynolds, 2003), even across denominational divides (Dervic et al., 2004). The altruism factor

encourages clients to consider how they can 'give something back' by reinvesting in a community of their choice. This directly relates to the concept of social capital which has been identified as having a protective effect on suicidal ideation (Patel, 2010). In relation to self-improvement, the client is encouraged to identify an area in which they would like to enhance existing, or undertake new, skills and abilities. This develops self-esteem (Macdonald, 1994), resilience and confidence, and provides a rationale for living (Granello, 2010).

Sessions 13 to 15: Consolidation of the coping strategies developed is established through the use of guided-imagery to explore responses to potential suicide-related crises and behaviour (Henriques, Beck, & Brown, 2003), and follows the five-step process outlined by Stanley et al. (Stanley et al., 2009). Clients are also warned of the potential for recurrence of suicidal thinking and are encouraged to adhere to the care plan developed throughout therapy that provides the skills required confront future crises

## 3. Follow-Up

In line with existing suicide intervention models (Granello, 2010; Huisman et al., 2010; Roberts, 1991; Stanley et al., 2009) and the recommendation of previous research (Macdonald, Pelling, & Granello, 2009) the PH-SIM concludes with a follow-up period with the client. The first follow-up contact is a text message two weeks after therapy has concluded to serve as a brief reminder that the service is available when required. Four weeks after therapy has concluded the client receives a letter and information on local support services they may find useful to deal with more specific stressors (e.g., relationship or financial issues). The final contact occurs six weeks after therapy has concluded and is a telephone call to check on the client's progress and suicidal ideation. As advised by Mann

(2002) this enquires about their current depression, hopelessness, and suicidal ideation. If the therapist is satisfied with the client's progress the therapy is officially closed.

## **Aims**

While the proposed model is established on existing intervention structures, fulfils the therapeutic requirements of the organisation, and permits for adaptation to meet the client's needs, it is necessary to evaluate its ability to decrease suicidal ideation and increase the desire to live. The aim of this research, then, is to assess the impact of engaging in the proposed therapy model on clients' negative and positive suicidal outlook. This will be achieved by comparing levels of suicidal ideation, depression, and self-esteem of clients in suicidal crisis before any therapy has begun, with levels recorded in the month following the completion of their therapy. It is hypothesized that clients will have a decreased negative outlook (i.e. lower levels of depression and negative suicidal ideation) and more positive outlook (i.e. greater self-esteem and reasons for living) after engaging in therapy using the PH-SIM.

# **Methods**

## **Experimental Design**

This study employed a quasi-experimental, pre-test post-test design without a control group.

## Sample

A total of 432 of the 664 invited to participate in the pre-therapy stage did so (65.1%), of which 44.4% were male and 55.6% were female. Post-therapy 147 clients (50.3%) continued to participate (50.3% males and 49.7% females). This figure exceeds the required 44 clients

the G\*Power 3 programme (Faul, Erdfelder, Buchner, & Lang, 2009) calculated as necessary for a MANOVA to detect large effects (.40) with 95% power at the .05 significance level. The age range was from 18 to 74 years old, with a mean of 38.1 years (sd=13.7).

#### **Research Tool**

The questionnaire was designed to be as short as possible due to the vulnerable condition of the clients, particularly pre-therapy. Information on the scales used is presented below. *Self-Esteem:* Self-esteem was measured by Robins, Hendin, and Trzesniewski's (2001) single-item indicator ("I have high self-esteem") which is rated on a five-point scale and has been shown to have a very high convergent validity with the Rosenberg Self-Esteem Scale (Rosenberg, 1965).

Depression: The Patient Health Questionnaire (PHQ-9) is a nine-item scale for assessing the severity of depression (Kroenke, Spitzer, & Williams, 2001). It has well-established reliability and validity when administered face-to-face or over the telephone (Pinto-Meza, Serrano-Blanco, Penarrubia, Blanco, & Haro, 2005). The scale asks about the frequency of activities over the past two weeks relating to eating, sleeping, energy and motivation levels, and responses range from zero ('not at all') to three ('nearly every day').

Positive and Negative Suicidal Ideation: The Positive and Negative Suicide Ideation
Inventory (PANSI) (Osman, Gutierrez, Kopper, Barrios, & Chiros, 1998) assesses the
frequency of factors that increase the client's desire to die (their Negative Suicidal Ideation)
and those that serve to protect the client by increasing coping, resilience, or social support to
decrease suicidal ideation and enhance their desire to live (their Positive Suicidal Ideation).
To keep the questionnaire as short as possible four items were selected from the positive
scale (items 2, 12, 13, and 14) and four from the negative scale (items 1, 3, 5, and 11) based

on the strength of the factor loadings on the confirmatory factor analysis conducted by Osman et al. (Osman et al., 2002).

Positive outlook is measured by self-esteem and positive suicidal ideation, and negative outlook by depression and negative suicidal ideation.

## **Procedure**

The pre-therapy questionnaire was administered by the therapist at the initial assessment before any therapy had commenced. Questions were read aloud by the therapist and responses recorded on the questionnaire. After their therapy had been completed participants were called by independent researchers within a month and the same questions administered via telephone. This enabled clients' pre- and post-therapy responses to be matched. The study received ethical approval from the Research Ethics Committee at the Adelaide & Meath Hospital, Incorporating the National Children's Hospital in Dublin.

## Results

Repeated measures MANOVAs were conducted to establish whether therapy using the PH-SIM had a significant effect on clients' negative and positive outlook.

## **Negative Outlook**

*Depression*: Analysis revealed a statistically significant overall effect suggesting that therapy was a significant predictor of depression (F(1.63, 99.5) = 15.34, p<.01,  $\eta p.2 = .20$ ). Follow-up paired-samples t-tests between pre-therapy and post-therapy levels revealed a significant difference (see Table 1), with statistically lower scores after therapy.

Negative Suicide Ideation: The significant effect for therapy  $(F(2, 53) = 38.7, p < .01, \eta p.2 = .59)$  suggests that this was a significant predictor of negative suicidal ideation. Follow-up analyses of the pre- and post- therapy scores (see Table 1) reveals significantly lower levels of negative suicidal ideation after therapy had finished.

#### **Positive Outlook**

Self-Esteem: Results of a within-subjects repeated-measures MANOVA revealed a statistically significant overall effect for self-esteem (F(2, 62) = 27.58, p<.01,  $\eta p.2$  = .47), with statistically significant higher scores noted post-therapy (see Table 1).

Positive Suicide Ideation: The statistically significant overall effect (F(2, 55) = 26.0, p < .01, p < .2 = .49) suggests that engaging in therapy was a significant predictor of positive outlook. The mean difference on the follow-up t-tests between pre- and post-therapy levels indicated statistically significant higher levels of positive outlook after therapy had finished.

The results show that clients' negative outlook (as measured by depression and negative suicidal ideation) had significantly decreased, while positive outlook (self-esteem and positive suicidal ideation) had significantly increased after therapy with the PH-SIM had been completed.

# **Discussion**

There is no consensus on what makes suicide crisis intervention therapy effective (Thomas et al., 2009). While most intervention models adhere to the same generalised structure (pretherapy, therapy, post-therapy) the lack of detail provided on the content, progression, or protocol has resulted in the development and use of myriad models (Thomas & Leitner, 2005), most of which have little or no empirical basis (Jobes, 2013).

**Table 1**. Paired-samples t-tests for pre- and post-treatment scores

Measure	Pre-Treatment		Post-Treatment		t values and Significance
	Mean	SD	Mean	SD	
Depression	18.58	5.77	10.87	7.47	t(92) = 9.07, p<.001
Neg. Suicidal Ideation	13.04	4.22	7.77	4.82	t(81) = 9.58, p<.001
Self-Esteem	1.76	1.07	2.79	1.08	t(91) = -6.80, p<.001
Pos. Suicidal Ideation	9.48	3.69	13.76	3.66	t(82) = -7.62, p < .001

The PH-SIM is an intervention model that, unlike many of its predecessors, provides sufficient information to enable a therapist to replicate the therapy process. It was developed due to the inability to find an evidence-based intervention model that was based primarily on the development of multiple protective factors. The proposed model was designed to increase the client's positive outlook (their reason for living) while decreasing their negative outlook (their reasons for dying) by developing new, or reinforcing existing, protective factors in nine specified areas of their life.

This research aimed to establish the impact of the proposed therapeutic model on clients' outlook by comparing levels positive and negative outlook before and after therapy. The significant effects and the decreased negative and increased positive outlook following therapy provide some support for the PH-SIM in fulfilling its role. These results are reported cautiously and with acknowledgement of the absence of a randomised control group, a small sample size, and the possibility of regression to the mean.

Further research will explore the longitudinal impact of therapy using the PH-SIM on client outlook, the means by which the therapeutic process affects risk and protective factors, and the linkages between specific protective factors and levels of suicidal ideation.

# Limitations

The study had several limitations that may affect the generalizability of the findings. Firstly, the study employed no control group as this would involve denying some clients the therapy programme provided by Pieta House which runs contrary to the principle of beneficence as outlined in the Belmont Report (National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research, 1979). The repeated-measures design was used instead, in an attempt to reduce error variance (Ellis, 1999) and provide control over threats to internal validity (Huck & McLean, 1975). Secondly, there were a number of factors that increased the proportion of missing values. Since the study was designed to determine the impact of completing therapy using the proposed model, only those that had fully completed their therapy programme were included in the sample. Future research should explore the impact of therapy on those who did not complete their programme. The main reason cited by participants for post-assessment non-participation was that they had progressed beyond their suicidal crisis and were reluctant to revisit that aspect of their life. While missing values may have been redressed by the use of a multiple imputation strategy this approach was not pursued due to concerns over biased estimates of proportions (Horton, Lipsitz, & Parzen, 2003) resulting from the use of categorical variables, and the potential implications of inconsistent imputation and analysis models (Allison, 2012). Instead, this issue may be redressed in future studies by having the same therapist administer both the pre- and posttherapy questionnaire as opposed to in independent researcher.

# **Conclusions**

This research aimed to propose a detailed suicide intervention model, and to assess the impact of therapy using this model on clients' negative and positive suicidal outlook. The main function of the model was to resolve current and future crises by developing protective factors in multiple areas of their life. Comparison of data before and after therapy suggests that clients who engaged in therapy had significantly lower levels of negative outlook and significantly higher levels of positive outlook. While additional research is required to establish the exact role of the model in achieving these results, this provides some initial support for the proposed suicide intervention model.

# **Acknowledgements**

The authors would like to acknowledge and thank the researchers who volunteered their time and expertise in the collection of the data: Hollie Byrne, Sarah Walsh, Aislinne Freeman, Cataline Suarez, John McNamee, and Susanne O'Driscoll.

The authors would also like to thank all clients at Pieta House who consented to participate in this research.

# References

- Allison, P. D. (2012). Handling Missing Data by Maximum Likelihood. In A. T. Kuligowski (Ed.), *Proceedings from the SAS Global Forum* (Paper 312–2012). Orlando: SAS Global. Retrieved from http://support.sas.com/resources/papers/proceedings12/index.html
- Berman, A., & Jobes, D. (1997). *Adolescent suicide assessment and intervention*. Washington, DC: American Psychological Association.
- Bradford, B. (1997). Upspeak in British English. English Today, 51, 33–36.
- Brown, D. R., Galuska, D. A., Zhang, J., Eaton, D. K., Fulton, J. E., Lowry, R., & Maynard, L. M. (2007). Physical activity, sport participation, and suicidal behavior: U.S. High School students. *Medicine and Science in Sports and Exercise*2, 39(12), 2248–2257.
- Brown, D. W., Brown, D. R., Heath, G. W., Balluz, L., Giles, W. H., Ford, E. S., & Mokdad, A. H. (2004). Associations between physical activity dose and health-related quality of life. *Medicine and Science in Sports and Exercise*, *36*, 890–896.
- Chiles, J. A., & Strosahl, K. D. (2005). *Clinical manual for assessment and treatment of suicidal patients*. Washington, DC: American Psychiatric Press.
- Corcoran, P., & Arensman, E. (2011). Suicide and employment status during Ireland's Celtic Tiger economy. *European Journal of Public Health*, 21(2), 209–14. doi:10.1093/eurpub/ckp236
- Cully, J. A., & Teten, A. L. (2008). *A Therapist's Guide to Brief Cognitive Behavioral Therapy*. Houston: Department of Veterans Affairs South Central MIRECC.
- Cutcliffe, J., & Santos, J. (2012). Suicide and self-harm: an evidence-informed approach. London: Quay Books.
- Dervic, K., Oquendo, M. A., Grunebaum, M. F., Ellis, S., Burke, A. K., & Mann, J. J. (2004). Religious affiliation and suicide attempt. *The American Journal of Psychiatry*, *161*(12), 2303–2308.
- Durkheim, E. (1952). Suicide: A study in sociology. London: Routledge and Kegan Paul.
- Echterling, L. G., Presbury, J., & McKee, J. E. (2005). *Crisis intervention: Promoting resilience and resolution in troubled times*. Columbus, OH: Prentice Hall.
- Ellis, M. E. (1999). Repeated Measures Designs. *The Counselling Psychologist*, 27(4), 552–578.
- Encrenaz, G., Kovess-Masféty, V., Gilbert, F., Galéra, C., Lagarde, E., Mishara, B., & Messiah, A. (2012). Lifetime risk of suicidal behaviors and communication to a health professional about suicidal ideation. Results from a large survey of the French adult

- population. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, *33*(3), 127–36. doi:10.1027/0227-5910/a000113
- Etnier, J. L., Nowell, P. M., Landers, D. M., & Sibley, B. A. (2006). A meta-regression to examine the relationship between aerobic fitness and cognitive performance. *Brain Research Reviews*, 52, 119–130.
- Faul, F., Erdfelder, E., Buchner, A., & Lang, A. G. (2009). Statistical power analyses using G\*Power 3.1: Tests for correlation and regression analyses. *Behavior Research Methods*, 41, 1149–1160.
- Furlong, M., & Oei, T. P. (2002). Changes to automatic thoughts and dysfunctional attitudes in group CBT for depression. *Behavioural and Cognitive Psychotherapy*, *30*(3), 351–360.
- Gearing, R. E., & Lizardi, D. (2009). Religion and suicide. *Journal of Religion and Health*, 48(3), 332–41. doi:10.1007/s10943-008-9181-2
- Granello, D. (2010). A suicide crisis intervention model with 25 practical strategies for implementation. *Journal of Mental Health Counseling*, 32(3), 218–235. Retrieved from http://amhca.metapress.com/index/N6371355496T4704.pdf
- Helliwell, J. (2007). Well-being and Social Capital: Does suicide pose a puzzle. *Social Indicators Research*, 81(3), 455–496.
- Henriques, G. R., Beck, A. T., & Brown, G. K. (2003). Cognitive therapy for adolescent and young adult suicide attempters. *American Behavioral Scientist*, 46, 1258–1268.
- Hilton, S. C., Fellingham, G. W., & Lyon, J. L. (2002). Suicide rates and religious commitment in young adult males in Utah. *Journal of Epidemiology and Community Health*, 155(5), 413–419.
- Horton, N. J., Lipsitz, S. R., & Parzen, M. (2003). A potential for bias when rounding in multiple imputation. *American Statistician*, *57*, 229–232.
- Huck, S. W., & McLean, R. A. (1975). Using a Repeated Measures ANOVA to Analyze the Data from a Pretest-Posttest Design: A Potentially Confusing Task. *Psychological Bulletin*, 82(4), 511–518.
- Huisman, A., Pirkis, J., & Robinson, J. (2010). Intervention studies in suicide prevention research. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 31(5), 281–4. doi:10.1027/0227-5910/a000049
- Jeffers, S. (1988). Feel the fear and do it anyway. New York: Ballantine Books.
- Jobes, D. A. (2006). Managing suicidal risk: A collaborative approach. New York: Guilford.
- Jobes, D. A. (2013). Reflections on Suicide Among Soldiers. *Psychiatry*, 76(2), 123–131.

- Koenig, H. G., McCullough, M. E., & Larson, D. B. (2001). *Handbook of Religion and Health*. New York: Oxford University Press.
- Kposowa, A. J. (2001). Unemployment and suicide: A cohort analysis of social factors predicting suicide in the US National Longitudinal Mortality Study. *Psychological Medicine*, *31*(1), 127–138.
- Kroenke, K., Spitzer, R. L., & Williams, J. B. (2001). The PHQ-9: Validity of a brief depression severity measure. *Journal of General Internal Medicine*, 16, 606–613.
- Linehan, M. M. (1997). Behavioral treatments of suicidal behaviors: Definitional obfuscation and treatment outcomes. In D. M. Stoff & M. J. J (Eds.), *Neurobiology of suicide: From the bench to the clinic* (pp. 302–328). New York.
- Linehan, M. M. (2008). Suicide intervention research: A field in desperate need of development. *Suicide and Life-Threatening Behavior*, *38*, 483–485.
- Linehan, M. M., Goodstein, J. L., Nielsen, S. L., & Chiles, J. A. (1983). Reasons for staying alive when you are thinking of killing yourself: The reasons for living inventory. *Journal of Consulting and Clinical Psychology*, *51*, 276–286.
- Macdonald, G. (1994). Self-esteem and the promotion of mental health. In D. Trent & C. Reed (Eds.), *Promotion of Mental Health* (pp. 19–20). Aldershot: Avebury.
- Macdonald, L., Pelling, N., & Granello, D. H. (2009). Suicide: A biopsychosocial approach. *Psychotherapy in Australia*, *15*, 62–72.
- Mann, J. J. (2002). A current perspective of suicide and attempted suicide. *Annals of Internal Medicine*, 136(4), 302–311.
- Mignone, J., & O'Neil, J. (2005). Social Capital and Youth Suicide Risk Factors in First Nations Communities. *Canadian Journal of Public Health*, 96(Suppl 1), S51–54.
- National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research. (1979). The Belmont Report: Ethical principles and guidelines for the protection of human subjects of research. *OPRR Reports*, *18*, 1–8.
- National Office for Suicide Prevention. (2005). *Reach out: National strategy for action on suicide prevention 2005–2014*. Dublin.
- Office of the Surgeon General (US); National Action Alliance for Suicide Prevention (US). (2012). 2012 National Strategy for Suicide Prevention: Goals and Objectives for Action: A Report of the U.S. Surgeon General and of the National Action Alliance for Suicide. Washington (DC). Retrieved from http://www.ncbi.nlm.nih.gov/books/NBK109917/
- Osman, A., Barrios, F., Gutierrez, P. M., Wrangham, J. J., Kopper, B. A., Truelove, R. S., & Linden, S. C. (2002). The Positive and Negative Suicide Ideation (PANSI) inventory: psychometric evaluation with adolescent psychiatric inpatient samples. *Journal of Personality Assessment*, 79(3), 512–30. doi:10.1207/S15327752JPA7903\_07

- Osman, A., Gutierrez, P. M., Kopper, B. A., Barrios, F. X., & Chiros, C. E. (1998). The Positive and Negative Suicide Ideation Inventory: Development and validation. *Psychological Reports*, 28, 783–793.
- Patel, V. (2010). Building social capital and improving mental health care to prevent suicide. *International Journal of Epidemiology*, *39*(6), 1411–1412.
- Pinto-Meza, A., Serrano-Blanco, A., Penarrubia, M. T., Blanco, E., & Haro, J. M. (2005). Assessing depression in primary care with the PHQ-9: Can it be carried out over the telephone? *Journal of General Internal Medicine*, 20(8), 738–742.
- Platt, S., & Hawton, K. (2000). Suicidal behaviour and the labour market. In K. Hawton & K. Van Heeringen (Eds.), *The international handbook of suicide and attempted suicide* (pp. 309–384). Chichester: Wiley.
- Ramsay, R. (2004). New developments in suicide intervention training. *Suicidologi*, 9(3), 10–12.
- Roberts, A. R. (1991). Conceptualizing crisis theory and the crisis intervention model. In A. R. Roberts (Ed.), *Contemporary perspectives on crisis intervention and prevention* (pp. 2–17). Englewood Cliffs, NJ: Prentice-Hall.
- Roberts, A. R. (2000). *Crisis Intervention Handbook: Assessment, treatment, and research.* (O. U. Press, Ed.). Oxford.
- Robins, R. W., Hendin, H. M., & Trzesniewski, K. H. (2001). Measuring Global Self-Esteem: Construct Validation of a Single-Item Measure and the Rosenberg Self-Esteem Scale. *Personality and Social Psychology Bulletin*, 27(2), 151–161. doi:10.1177/0146167201272002
- Rosenberg, M. (1965). *Society and the adolescent self-image*. Princeton, NJ: Princeton University Press.
- Sanchez, H. (2001). Risk factor model for suicide assessment and intervention. *Professional Psychology and Practice*, 32, 352–358.
- Shneidman, E. (1985). Definition of suicide. New York: Wiley.
- Shneidman, E. S. (1993). Suicide as psychache. *The Journal of Nervous and Mental Disease*, 181, 145–147.
- Snyder, C. R., & Lopez, S. J. (2002). *Handbook of positive psychology*. Oxford: Oxford.
- Stanley, B., Brown, G., Brent, D., Wells, K., Poling, K., Curry, J., ... Hughes, J. (2009). Cognitive behavioral therapy for suicide prevention (CBT-SP): Treatment model, feasibility, and acceptability. *American Academy of Child and Adolescent Psychiatry*, 48, 1005–1013.

- Stanley, B., Brown, G. K., Karlin, B., Kemp, J. E., & VonBergen, H. A. (2008). *Safety plan treatment manual to reduce suicide risk: Veteran version*. Washington, DC: United States Department of Veterans Affairs.
- Szanto, K., Mulsant, B. H., Houck, P., Dew, M. A., & Reynolds, C. F. (2003). Occurrence and course of suicidality during short-term treatment of late-life depression. *Archives of General Psychiatry*, 60, 610–617.
- Thomas, E. E., Allen, J. G., Harrell Woodson, B., Frueh, C., & Jobes, D. A. (2009). Implementing an evidence-based approach to working with suicidal inpatients. *Bulletin of the Menninger Clinic*, 73(4), 339–354.
- Thomas, J. C., & Leitner, L. M. (2005). Styles of Suicide Intervention: Professionals' Responses and Clients' Preferences. *The Humanistic Psychologist*, 33(2), 145–165.
- Thompson, W. E., & Hickey, J. V. (2005). Society in Focus. Boston, MA: Pearson.
- Wasserman, D. (2001). A stress-vulnerability model and the development of the suicidal process. In D. Wasserman (Ed.), *Suicide: An unnecessary death* (pp. 13–27). London: Martin Dunitz Ltd.
- Wasserman, D., Rihmer, Z., Rujescu, D., Sarchiapone, M., Sokolowski, M., Titelman, D., ... Carli, V. (2012). The European Psychiatric Association (EPA) guidance on suicide treatment and prevention. *European Psychiatry : The Journal of the Association of European Psychiatrists*, 27(2), 129–41. doi:10.1016/j.eurpsy.2011.06.003
- Wong, P. W., Chan, W. S., Chen, E. Y., Chan, S. S., Law, Y. W., & Yip, P. S. (2008). Suicide among adults aged 30-49: A psychological autopsy study in Hong Kong. *BMC Public Health*, 8(147).