Religious Orientation and Adjustment to Stressful Life Events: The Mediating Roles of
Positive and Negative Religious Coping

Chi Ting, Low

13399814

Bond University

Author Note

Chi Ting, Low, Faculty of Society and Design, School of Psychology, Bond University.

This assignment was part of the course requirements for Graduate Diploma in Psychological Science.

Correspondence concerning this assignment should be addressed to Chi Ting, Low.

Email: chiting.low@student.bond.edu.au

2

Statement of Originality

This is to certify that all work contained in this thesis is my own unless otherwise cited.

This thesis has not been submitted previously in whole or in part towards a degree at this or

Chi Ting, Low

16 December 2015

any other university.

Acknowledgements

Firstly, I would like to express my very great appreciation to Dr. Samios, for her valuable suggestions about this research. I would like to express my sincere gratitude for her patience and immense knowledge. Secondly, I would like to thank my parents and my grandmother for always encouraging and supporting my education. Thirdly, I would also like to thank my fellow classmates, Ibolya and Kenn, who always support me and give me advices when I need help. Finally, I would like express my appreciation to others who I have not mentioned, I appreciated their support, which has helped me to get through this course.

Table of contents

Title page	1
Statement of originality	2
Acknowledgements	3
Table of contents	4
List of tables	6
List of figures	7
Abstract	8
Introduction	9
Religion as a Meaning-Making Process and Adjustment	11
Religious Orientation and Adjustment	14
Religious Coping and Adjustment	16
The Present Study	18
Method	19
Participants	19
Materials	21
Demographic information	21
The impact of life events	21
Religious orientation	22
Religious meaning-making coping	23
Understanding of life events	24

Depression and anxiety	24
Life satisfaction	25
Positive affect	25
Sense of coherence	26
Design and Procedure	26
Results	27
Data diagnosis and assumption checking	27
Main Analyses	31
The correlational analysis	31
The Mediation Analysis	31
Depression	33
Anxiety	35
Life satisfaction	37
Positive affect	39
Sense of coherence	41
Discussion	43
References	50
Appendix A	62
Appendix B	76

List of tables

Table 1 Summary of the descriptive statistics of each variable, N=8429
Table 2 Summary of Pearson Correlation on the Variables, N = 8430
Table 3 Regression Coefficients, Standard Errors, and the Summary Information on the
Positive and Negative Religious Meaning-Making Coping Mediation of the Relationship
between Intrinsic Religious Orientation and Depression, N = 8434
Table 4 Regression Coefficients, Standard Errors, and Model Summary Information on the
Positive and Negative Religious Meaning-Making Coping Mediate the Relationship between
Intrinsic Religious Orientation and Anxiety, N = 8436
Table 5 Regression Coefficients, Standard Errors, and the Summary Information on the
Positive and Negative Religious Meaning-Making Coping Mediation of the Relationship
between Intrinsic Religious Orientation and Life Satisfaction, N = 8438
Table 6 Regression Coefficients, Standard Errors, and the Summary Information on the
Positive and Negative Religious Meaning-Making Coping Mediation of the Relationship
between Intrinsic Religious Orientation and Positive Affect, N = 8440
Table 7 Regression Coefficients, Standard Errors, and the Summary Information on the
Positive and Negative Religious Meaning-Making Coping Mediation of the Relationship
between Intrinsic Religious Orientation and Sense of Coherence, N = 8442

RELIGION ORIENTATION, COPING AND ADJUSTMENT	

	1

List of figures

Figure 1.	A single-st	ep multiple mediato	r with two m	nediators .	 32
_	_	-			

Abstract

The meaning-making model has provided an important perspective on how individuals adjust to and cope with stressful life events. The aim of the current study was to investigate the relationship between intrinsic religious orientation and indicators of psychological adjustment (depression, anxiety, life satisfaction, positive affect and sense of coherence) and whether it is mediated by positive and negative religious meaning-making coping. Eighty-four participants who had experienced stressful life events in the past year completed measures of intrinsic religious orientation, positive and negative meaning making coping, and a broad range of psychological adjustment indicators. Mediation analysis using PROCESS macro found that positive religious meaning-making coping does have mediated effect between intrinsic religious orientation and psychological adjustment when it is conceptualized as life satisfaction. However, negative religious meaning-making coping does not have mediated effect between intrinsic religious orientation and psychological adjustment. Additionally, the findings also showed that negative religious meaning-making coping is related to depression and anxiety, low life satisfaction, positive affect and sense of coherence. The findings of the current study indicate that clinicians and counsellors should consider the importance of an individual's religiousness and its influence on well-being following stressful life events. The limitations and suggestions for future research are discussed.

Keywords: meaning-making model, religious orientation, positive and negative religious meaning-making coping, psychological adjustments

Religious Orientation and Adjustment to Stressful Life Events: The Mediating Roles of
Positive and Negative Religious Coping

In 2014, the Stress and Wellbeing in Australia Survey (Casey & Pui-Tak, 2014) reported that approximately 7 in 10 Australians (72%) stated that stress had a significant impact on their physical and mental health. Among the respondents, 13% reported that they had experienced some level of depression and anxiety. Young Australians (i. e. those between 18-25 and 26-35) were reported to have the highest level of stress and distress compared to older Australians (aged 66 and above; Casey & Pui-Tak, 2014). According to the survey, financial issues were the leading cause of stress among Australians, followed by family issues and personal health issues (Casey & Pui-Tak, 2014). In terms of sex, financial issues were the significant source of stress among men (44%) and women (53%). It can be deduced, based on this report, that stressful life events exert influence over individuals' lives.

A meta-analysis of 188 publications conducted by Luhmann, Hofmann, Eid and Lucas (2012) manifests that different life events (i.e. divorce or retirement) have different impact on individuals' well-being (e.g. emotions, moods and life satisfaction). In addition, many studies demonstrate that exposure to stressful life events are associated with symptoms of depression and anxiety (i.e. Michl, McLaughlin, Shepherd, & Nolen-Hoeksema, 2013; Sokratous, Merkouris, Middleton & Karanikola, 2013). Failure to manage stressful life events will decrease individuals' well-being (Suh, Diener & Fujita, 1996). Therefore, a coping method for stressful life events such as the meaning-making model is needed to reduce the adverse effects of stressful life events (Park, 2010).

The meaning-making model (Park, 2010) provides an important perspective on how individuals cope with their stressful life experiences. It is a model that integrates different coping theories used to understand individuals' psychological adjustment to stressful life experiences (Park, 2010; Park & Folkman, 1997). According to the model, there are two

levels of meaning, global meaning and situational meaning (Park, 2010). Global meaning refers to individuals' broad beliefs, goals and sense of meaningfulness that guide their understanding of worldviews, lives, behaviours and thoughts (Park, 2005; Park & Folkman, 1997, Slattery and Park, 2011) while situational meaning refers to meaning in the context of an individual experiencing a potentially stressful situation (Park & Folkman, 1997; Park, 2005; Park, 2010).

Both levels of meaning involve coping with stressful life experiences. The meaning-making model (Park, 2010) states that the discrepancies between individuals' global meaning (i.e. goals and beliefs) and their appraised meaning of events will lead to distress. For example, Park's (2008) study on 108 college students demonstrates that individuals who perceive a loss as a violation to their global beliefs have a higher level of distress. In addition, discrepancies between individuals' global meaning and appraised meaning of their life events are also related to higher levels of symptoms of depression and anxiety, and lower quality of life (i.e., Kuijer & de Ridder, 2003; Nordin, Wasteson, Hoffman, Glimelius, & Sjoden, 2001). Janoff-Bulman and Yopyk (2004) identified this as a paradox of meaning. It occurs when a traumatic event which individuals have experienced causes them to question their reality. They question why the event happened to them. This paradox will initiate the meaning-making process, which helps individuals revise or replace their belief system to adapt a more useful system to restore their violated global meaning as a way of reducing distress (Neimeyer & Milman, 2014, Werdel & Wicks, 2012; Gillies).

Heins (1999) stated that meaning making is an inevitable process. The meaning-making process influences individuals' ability to construct knowledge and understanding of what they know and believe (Heins, 1999; Park, 2010). For example, Park's (2010) reviews illustrate that meaning-making provides positive outcomes such as positive psychological adjustment and better quality of life. Furthermore, MacKenzie and Baumeister (2014) stated

that meaning-making helps individuals to find their purpose, values, efficacy and self-worth. If individuals fail to attribute their meaning, it may lead to long-term distress for the individuals (Davis, Nolen-Hoeksema & Larson, 1998). Many studies demonstrate that meaning-making coping processes are beneficial upon a stressful life event as they improve well-being (Mackay & Bluck, 2010). Research attests that meaning-making coping processes lead to better outcomes on emotional and social well-being such as less depression and greater personal growth and self-esteem (Boehmer, Luszczynska, & Schwarzer, 2007; Farran, Miller, Kaufman, & Davis, 1997; Hayes, Beevers, Feldman, Laurenceau, & Perlman, 2005).

Research shows that meaning-making coping processes are associated with positive outcomes. However, some studies have found that meaning-making coping processes are related to poor adjustment and poor quality of life (e.g., Helgeson & Tomich, 2005). It is possible that negative meaning will be the outcome of the meaning-making process (Park, 2011). Park's (2010) literature reviews show that meaning-making is associated with poor mental health and negative affect. In addition, some studies show that there is no difference between mental health and quality of life when an individual engages in meaning-making to cope with stressful life events (Park, 2010). Park (2010) stated that the main problem is the fact that some studies have poor operational definitions of meaning-making. This is due to different measurements, samples, time frames and statistical techniques used to study meaning-making (Park, 2011). Some investigations have demonstrated that different types of meaning-making and meanings have impacted on individuals' perception of distress (i.e, Manne, Ostroff, Fox, Grana & Winkel, 2009; Moore, Norman, Harris & Makris, 2006). Therefore, a universal meaning-making operational definition is required to reduce the inconsistency of those investigations.

Religion as a Meaning-Making Process and Adjustment

Park and Folkman's (1997) literature reviews assert that religion and spirituality serve as a meaning-making coping process. Religion and spirituality heavily influence an individual's daily life and are strongly linked to a sense of meaning in life (Park, 2005; Slatter & Park, 2011; Stager & Fraizer, 2005). Religion and spirituality help an individual question or accept reality and gain insight and courage to manage stressful life events (Matitis, 2002). Research on 156 bereaved parents shows that religious beliefs and spirituality are the most common coping method for stressful events (Lichtenthal, Currier, Neimeyer & Keesee, 2010). Gillies, Neimeyer and Milman's (2014) study on 30 categories of meaning-making strategies concludes that personal growth, family bond and spirituality are the most common meaning-making strategies used by individuals to cope with stressful or traumatic life events. The same result can be observed in the Stress and Well-being in Australia Survey, where 33% of the respondents claimed that they do something spiritual as a strategy for managing their stress (Casey & Pui-Tak, 2014). Among these respondents, 79% claimed that it is an effective strategy for managing their stress (Casey & Pui-Tak, 2014). In addition, religion and spirituality have been reported to provide individuals with a sense of coherence and meaning which increase their ability to cope with stressful life events (George, Larson, Koening & McCullough, 2000). Recent studies suggest that religion and spiritual beliefs lead to positive affect and better life satisfaction for caregivers and patients with chronic illness (Pakenham & Cox 2009; Pakenham & Cox, 2008). This indicates that there is a positive relationship between religion and spirituality, and individuals' well-being.

Furthermore, Ai, Cascio, Santangelo, and Evans-Campbell (2005) and Burne et. al.'s (2002) studies indicate that religious meaning is associated with lower levels of depression and anxiety in addition to minimizing post-traumatic stress disorder symptoms. In Ai, Casio, Santangelom and Evans-Campbell's study involving 457 students upon the September 11, 2001 terrorist attack, it was discovered that there was an increase in the respondents' faith,

hope and spirituality. The increase of these qualities has been associated with a lower level of post-traumatic symptoms such as depression and anxiety. In addition, Burne et al's (2002) pilot study on traumatized refugees shows that belief systems such as religion and spirituality have been found to be a protective factor that reduces post-traumatic symptoms. The abovementioned studies provide valid documented evidence that religiousness and spirituality play a role in managing individuals' traumatic stress. This indicates that religious meaning has an important relationship with individuals' mental health (Pargament, Koening, & Perez, 2000).

In addition, Park's (2005) study demonstrates that meaning-making coping mediates the relationship between religion and psychological adjustments. Park's study manifests that religion may serve as a meaning-making system that helps individuals to cope with stressful or traumatic life events. However, one of the major limitations in Park's study was the scale used to measure meaning-making coping, which was not sufficient to measure the whole construct of meaning-making in the study. Park used one of the subscales in COPE (Carver, Scheiver & Weintraub, 1989), i.e. the positive reinterpretation and growth scale, which consists of only four questions to measure meaning-making coping. The positive reinterpretation and growth scale has low Cronbach's α reliability ($\alpha = .68$) and test-retest reliability ($\alpha = .48$) according to Carver, Scheier and Weintraub's (1989) study. The scale could result in weak statistical power and an increase in Type II error. Hence, this study capitalized on the recommendation in Park's (2005) study to examine the impact of positive and negative religious meaning-making coping on well-being. The current study involved Brief RCOPE (Pargament, Smith, Koening & Perez, 1998) to study the religious meaningmaking coping. The psychometric properties of the Brief RCOPE are supported by high internal consistency, the confirmatory factor analysis, construct validity and predictive validity (see Paragament, Smith & Preze, 1998; Pargament, Feuille & Burdzy, 2011, for reviews).

By integrating the religion model and the meaning-making model, it can be observed that religion/spirituality and the meaning-making model share one thing in common: i.e. religion and spirituality can influence individuals' goals, beliefs and sense of meaning in life (Park, 2007).

Religious Orientation and Adjustment

Religion and spirituality help individuals shape their belief system. It is important to understand how religion and spirituality can help them to maintain well-being. The Stress and Wellbeing in Australia Survey (Casey & Pui-Tak, 2014) and Gillies, Neimeyer and Milman's (2014) studies show that religion is a common strategy to cope with stress, loss and bereavements. When individuals adopt a religious perspective, it helps them gain a sense of meaningfulness and purpose in life whenever they are in the midst of stressful life events (Compton, 2005). It can be observed that individuals who capitalise on religion and spirituality as a tool of motivation achieve well-being.

Allport and Ross (1967) have conceptualized two types of religious orientation, i.e. intrinsic orientation and extrinsic religious orientation, to measure individuals' religious orientation. Intrinsic religious orientation refers to the use of religion as a means to understand an individual's life (Allport & Ross, 1967; Haber, Jacob & Spangler, 2007). Intrinsic religious orientation also relates to a stronger connection with God. For example, individuals practice their religious beliefs because they believe religion helps them to overcome potentially stressful issues. Extrinsic religious orientation refers to the use of religion for personal gain (Allport & Ross, 1967; Roesch & Ano, 2003). For example, a politician may go to church to gain funding for his campaign.

To measure individuals' religious orientation, the Religious Orientation Scale (Allport & Ross, 1967) was developed. However, one of the major shortcomings of the Religious Orientation Scale (Allport & Ross, 1967) is that it does not measure what it is supposed to

measure. The fundamental problem of the intrinsic and extrinsic religious orientation scale is that the intrinsic scale is poorly defined and it does not measure an individual's religious motivation or religious behaviour, but it measures individuals' religious commitment (Kirkpatrick & Hood, 1990; Donahue, 1985). Donahue's (1985) meta-analysis study on the intrinsic and extrinsic religious orientation scale shows that the intrinsic religious orientation scale is highly correlated to the other valid measurement of religious commitment. This indicates that the intrinsic religious orientation scale should be used with caution, depending on the research question. Although there are limitations in the intrinsic and extrinsic religious orientation scale, many studies suggest that it is a valid and reliable measure to predict individuals' psychological adjustments to stressful and traumatic life events.

Many researches demonstrate that intrinsic religious orientation is more beneficial to individuals' well-being compared to extrinsic religious orientation. A meta-analysis conducted by Donahue (1985) shows that intrinsic religious orientation is negatively correlated to characteristics such as anxiety and prejudice. This result can also be observed in many recent investigations, which demonstrate that intrinsic religious orientation is associated with better psychological adjustment across different cultures (Kuyel Cesur & Ellision, 2012; Lavric & Flere, 2008) and religion groups (Cohen et. al., 2005; Ghorbani & Watson, 2006; Lavric & Flere, 2008).

Furthermore, a critical review of 17 studies suggests that intrinsic religious orientation helps to improve individuals' well-being (Shreve-Neiger & Edelstein, 2004). In addition, intrinsic religious orientation is also related to better adjustment outcomes for individuals.

Tabak and Weisman de Mamani's (2014) study on 112 schizophrenia patients have found that intrinsic religious orientation is related to individuals' life satisfaction. Additionally, intrinsic religious orientation has also been found to be related to a sense of meaningfulness, which facilitates well-being (Ardelt & Koening, 2007). These studies demonstrate that

intrinsic religious orientation is related to how individuals integrate their religious commitment to achieve meaningful experiences.

Religious Coping and Adjustment

Pargament, Smith, Koening and Perez (1998) have identified two patterns of religious coping (positive and negative religious coping), which potentially have important implications for individuals' well-being. Positive religious coping refers to a sense of connectedness towards God and the belief that life has a greater benevolent meaning; negative religious coping refers to spiritual tension, conflict and struggle with God, spiritual questioning and doubting, and interpersonal religious discontent (Pargament, Smith Koening & Perez, 1998; Pargament, Feuille & Burdzy, 2011). To measure positive and negative religious coping, a 14-item Brief RCOPE Scale was developed by Pargament, Smith, Koening and Perez (1998). In their study, it was revealed that positive religious coping is commonly used by respondents to cope with their stressful life experiences.

Many studies have provided evidence that positive religious coping is beneficial to individuals' spiritually, psychologically, socially and physically. Positive religious coping is related to less depressive and post-traumatic stress disorder symptoms while negative religious coping is related to a decrease in psychological functioning and negative outcomes such as poor mental health (Ai, Park, Huang, Rodgers & Tice, 2007; Bjrock & Thurman, 2007; Gerber, Boals & Schuettler, 2011; Pearce, Singer & Prigerson, 2006). This is because positive religious coping provides positive emotions such as connection with God that allow individuals to associate a spiritual connection compared to negative religious coping (Pargament, Smith Koening & Perez, 1998). Thus, positive religious coping provides better outcomes compared to negative religious coping. Furthermore, a meta-analysis of 49 studies on religious coping demonstrates that positive religious coping is associated with better adjustments (Ano & Vasconcelles, 2005). Although investigations demonstrate that positive

religious coping is beneficial to individuals' well-being, religious coping does not always bring positive outcomes to individuals.

Ano and Vasconcelles's (2005) meta-analysis on 49 studies shows that negative religious coping is associated with poor psychological adjustments. Furthermore, many investigations demonstrate that negative religious coping is related to negative outcomes and a decrease in well-being such as poor mental health, poor quality of life, a high level of chronic illness symptoms and depressive symptoms (Hebert, Zdaniuk, Schulz & Scheier, 2009; Pearce, Singer & Prigerson, 2006; Trevino et. al., 2010). This is because individuals who use negative religious coping for their stressful life events have insecure relationship with God and struggle to use religion to cope with stressful or traumatic life experiences (Pargament, Smith, Koenig & Perez, 1998).

When individuals encounter stressful life events, religion and spirituality offer a coping method that helps them appraise the context of the situation and manage stressful situations (Pargament, 2011). Religious coping helps individuals perceive that they work with God to solve their life problems. Compton (2005) maintains that religious coping is a way to help individuals to supress their negative emotions. For example, when individuals encounter family issues, they will experience depression symptoms and question their religion and spiritual beliefs. When individuals have found their answers through their religion and spiritual beliefs, they will feel less depressed. This demonstrates that religious meaningmaking coping helps individuals adapt traumatic experiences and associated them with something greater (Steger et. al., 2010). On the other hand, many studies demonstrate that religious coping mediates the relationship between religion variables (i.e. praying and church attendance) and positive outcomes (i.e. less depression and stress; Nooney & Woodrum, 2002; Roesch & Ano, 2003). The investigations and studies show that religious coping indirectly lead to better psychological well-being (Pargament, Koenig, Tarakeshwar, & Hahn, 2004;

Tix & Frazier, 1998). These findings strengthen the hypothesis suggested by Krause and Van Tran (1989) that the relationship between religion and better psychological adjustment are mediated by something such as religious coping.

The Present Study

The aim of this study was to examine the relationship between intrinsic religious orientation and psychological adjustment and whether this relationship mediated by positive and negative religious meaning-making coping and controlled by individuals' religious and spiritual interest. The study endeavoured to examine positive and negative religious meaning-making coping as recommended in Park's (2005) study. To examine the mediation relationship, the researcher had to establish the relationships between the predictor (intrinsic religious orientation), the mediator (positive and negative religious meaning-making coping) and the outcomes (depression, anxiety, life satisfaction, positive affect and sense of coherence). The previous literature and investigations have demonstrated the relationship between these variables (e.g. Park, 2005). Hence, the study hypothesized that religious meaning-making coping mediated individuals' religion orientation and psychological adjustment. The specific hypotheses were as follows:

H1. Religious orientation (intrinsic religious orientation) would be related to the impact of life events and understanding of life events. To be specific, higher scores on intrinsic religious orientation will related to lower scores on the impact of life events and higher scores on the understanding of life events.

H2. There would be a positive relationship between religious orientation and adjustment, i.e. higher scores on the intrinsic religious orientation would related to better adjustment indicated by lower scores on depression and anxiety and higher scores on life satisfaction, positive affect and sense of coherence.

H3. Religious orientation would be related to religious meaning-making coping (positive and negative religious coping). Specifically, higher scores on religious orientation would relate to higher the scores on positive religious coping and lower scores on negative religious coping.

H4. Religious meaning-making coping would be related to psychological adjustment.
To be specific, positive religious meaning-making coping would be related to better
psychological adjustment (lower scores on depression and anxiety, higher scores on life
satisfaction, positive affect and sense of coherence) which negative religious meaningmaking coping would be related to poorer psychological adjustment (higher scores on
depression and anxiety, lower scores on life satisfaction, positive affect and sense of
coherence).

H5. The relationship between religious orientation and adjustment will be significantly mediated by religious meaning-making coping, i.e. religious orientation would not directly predict adjustment (depression, anxiety, positive affect, meaningfulness of life and life satisfaction) while controlling for religious meaning-making coping and that positive religious coping will mediate most of the effect compared to negative religious coping.

Method

Participants

There were 116 respondents involved in this study. Forty-five university student respondents were recruited through the SONA participation system. Seventy-one respondents were recruited through social media sites (e.g. Facebook) and chain sampling (friends of friends). After excluding the respondents with extensive missing values due to human or computational errors, 84 valid respondents were used for this investigation.

The age range of the respondents was between 18 to 74 years old (M = 35.39, S.D. = 18.30), and 11 respondents did not disclose their age. There were 19 males (22.6%) and 64

females (76.2 %) and one respondent (1.2%) who did not provide information about his/her sex. In terms of their relationship status, 34 respondents (40.5%) were single, 23 respondents (27.4%) were married, 15 respondents (17.9%) were in a relationship and the rest were either divorced separated or widowed (14.3%).

In terms of their education status, 36.9% of the respondents reported that they had completed an undergraduate degree or an associate's degree; 26.2% of the respondents had completed college but had no degree; 16.7% of the respondents had completed secondary education; 10.7% of the respondents had completed a postgraduate degree or a Ph.D.; 3.6% of the respondents had completed a graduate or professional degree, and 6% of the respondents had completed other education, i.e. they had obtained a diploma degree or had attended high school in another country.

The majority of the respondents were full-time students (42.9%). The other respondents were part-time students (9.5%); 10.7% of the respondents were either employers or self-employed (10.7%); 8.3% of the respondents were full-time employees; 11.9% of the respondents were part-time/casual employees; 2.4 % of the respondents were receiving their carer payment; 4.8% of them were unemployed; 7.1% of them were retired; one respondent had ceased work on medical grounds while one respondent was a full-time student undertaking casual work (1.2%). With regard to household income, 44 respondents (52.4%) reported an annual income within the range of less than \$20,000 to 100,000, 24 respondents (28.6%) had an annual household income within the range of 100,001 to more than 220,001, 16 respondents (19%) did not provide information about their household income.

Concerning religious and spiritual interest, 47 respondents (56%) considered themselves to be religious or had spiritual interest and 37 respondents (44%) did not consider themselves to be religious or did not have any spiritual interest. In terms of nationality, the majority of the respondents were from Australia (63.1%), and the others were from the

United States of America (20.2%), Malaysia (4.8%), Britain (2.4%), Germany (2.4%), Russia (2.4%), Romania (1.2%), Singapore (1.2%), and South Africa (2.4%). With regards of the ethnicity, the respondents were predominantly Caucasian (60.7%) and the rest was Asian or mixed ethnicity (20.2%). The rest of the was no recorded (19.1%).

By using categories of stress suggested by Park, Cohen and Murch (1996) and the weight of stress provided by Holmes and Rahe (1967), the participants in the study had enlisted their stressful life events as follows: family-related events (e.g. communication problems with their parents) (15.5%), moving away/starting college (e.g. moving into a new house/university) (14.4%), illness/accidents (e.g. personal health problems) (11.9%), problems in a romantic relationship (e.g. a break-up) (9.5%), work-related stress (e.g. workplace bullying) (9.5%), academic performance problems (e.g. difficulty of maintaining good grades) (8.3%), illness/accidents experienced by others (e.g. a sick friend) (8.3%), the death of significant others (e.g. the death of a loved one) (8.3%), relationship problems with a friend (e.g. a friend had stopped talking to him/her) (1.2%), other events that were too infrequent for separate categorization (1.2%) and the other participants chose not to report the negative events (11.9%).

Materials

Demographic information. The demographic questionnaire included questions on the stressful life events which the respondents had experienced, their age, sex, relationship status, education level, employment status, household income, religious interest, nationality, ethnicity and health status as presented in Appendix A.

The impact of life events. The Impact of Event Scale-Revised (IES-R) is a self-report measure of respondents' distress over the past few days (Weiss & Marmar, 1997). It is a 22-item scale measured on a 5-point Likert scale ranging from 0 (not at all) to 4 (extremely). There are three subscales which reflect intrusion (e.g. "I had trouble sleeping."), avoidance

(e.g. "I stayed away from the reminders of it."), and hyper-arousal (e.g., "I felt irritable and angry."). The total scores of each subscale are summed up by the mean of the items and the total score of the IES-R is the sum of the mean scores of the three subscales.

Research reveals that the reliability (internal consistency) of intrusion, avoidance and hyperarousal are above the acceptable level of 0.70 (Nunnally & Bernstien, 1994) with Cronbach's α of .89, .84 and .82 respectively (Weiss & Marmar, 1997; Creamer, Bell & Failla, 2003). The test-retest reliability across a 6-month period ranges from .89 to .94 (Weiss & Marmar, 1997). In addition, similar internal consistency and test and re-test reliability have been reported across different language versions of IES-R (Weiss & Marmar, 1997). Furthermore, the reliability of intrusion, avoidance and hyperarousal in the current study measured with Cronbach's α shares the same result as the result of the previous research. The Cronbach α of intrusion, avoidance and hyperarousal in the current study are .89, .86 and .87 respectively. The IES-R, compared to other valid measures on the impact of traumatic stress, demonstrates good convergent and discriminant validity (Creamer, Bell & Failla, 2003).

Religious orientation. Revised Intrinsic/Extrinsic Religious Orientation Scale (I/E-R) is a self-report measure of an individual's religious attitude and behaviours (Gorsuch & McPherson, 1989). It contains 14-items (three reversedly keyed items) and is measured on a 5-point Likert-type scale ($1=strongly\ disagree$, $5=strongly\ agree$). There are two subscales in the I/E-R; eight questions measure intrinsic religious orientation and six questions measure extrinsic religious orientation (three on extrinsic social and the other three on extrinsic personal). Individuals' scores on the scale are summed up and divided into two categories, intrinsic and extrinsic religiousness. For this study, only the intrinsic religious orientation subscale was used for the investigation. I/E-R has demonstrated good psychometric properties. The reliability of intrinsic religious orientation has a Cronbach's $\alpha = .83$ (Gorsuch & McPherson, 1989; Titiopoulos, Bikker, Coxon & Hawkin, 2007). The Cronbach's α in the

current study is .86, which is slightly higher compared to the value of the previous result.

Besides that, the result of the factor analysis shows that I/E-R has high levels of construct validity compared to other measures of religious orientation (Titiopoulos, Bikker, Coxon & Hawkin, 2007).

Religious meaning-making coping. Currently, there is no specific measurement scale to measure religious meaning-making coping. The Brief RCOPE is an alternative scale that is used to measuring religious meaning-making coping. The Brief RCOPE is a short version of Religion COPE, which measures two domains of religion coping, positive and negative religious coping (Pargament, Feuille & Burdzy, 2011). It is a self-report measure of religious coping with stressful or traumatic life events. The Brief RCOPE consists of a 14-item measure on a 4-point Likert-scale ($1 = not \ at \ all$; $4 = a \ great \ deal$). The total score of the positive and negative religious coping subscales is the sum of the item scores in each subscale.

Confirmatory factor analysis identified two factors in The Brief RCOPE: positive religious coping measures the spiritual relationship between the individual and the world (e.g. "I tried to put my plans into action together with God.") while negative religious coping measures the spiritual struggle between individuals and the world (e.g., "I questioned God's love for me." (Pargament, Smith, Koening & Perez, 1998). The Brief RCOPE has demonstrated good internal consistency across various samples such as clinical and non-clinical patients, culturally diverse groups, various age groups and others (see Pargament, Feuille & Burdzy, 2011 for reviews). The median Cronbach's α for positive religious coping and negative religious coping across these samples were .92 and .81 (Pargament, Feuille & Burdzy, 2011). In the current study, the Cronbach's α is .93 for positive religious coping and 0.86 for negative religious coping, which are above the acceptable level of .70 according to the Nunnally and Bernstien (1994) guideline for reliability testing. Besides that, Brief

RCOPE also demonstrates good concurrent and predictive validity compared to other valid measures of spiritual well-being (Pargament, Feuille & Burdzy, 2011).

Understanding of life events. The Integration of Stressful Life Experience Scales (ISLES) is a self-report measure of meaning made of stress in a stressful or traumatic situation (Holland, Currier, Coleman & Neimeyer, 2010). It is a 16-item scale measured on a 5-point scale ($1 = strongly \ agree$; $5 = strongly \ disagree$). The ISLES contains two factors. The first factor includes comprehensibility, which assesses individuals' adaptability and understanding of stressful life events (e.g., "I have made sense of this event"). The second factor includes footing in the world, which assesses individuals' perspective on the extent to which the stressful life event does or does not make sense to the individuals (e.g., "Since this event, the world has seemed like a confusing and scary place"). The ISLES has good internal reliability with the Cronbach's α range from .80 to .92. However, the test-retest reliability of ISLES is below the acceptable level of .70; it has Cronbach's α range from .48 to .59 from various testing (Holland, Currier, Coleman & Neimeyer, 2010). The Cronbach's α for ISLES in the current study is .94, which is similar to the value in the previous testing, suggesting that the scale is a valid measurement scale. Additionally, ISLES also demonstrates good convergent validity with different measurements of posttraumatic stress and psychiatric distress (Holland, Currier, Coleman & Neimeyer, 2010).

Depression and anxiety. The Depression and Anxiety subscales of the Depression, Anxiety and Stress Scales short version (DASS21) were used in the current study. It is a self-report measure of the experience of depression, anxiety and stress over the past week (Lovibond & Lovibond, 1995). It is a short form of measurement scale adapted from Lovibond and Lovibond's (1995) 42- item of depression, anxiety and stress scale. The scale is measured on a 4-point Likert-type scale between 0 ("Did not apply to me at all") to 3 ("Applied to me very much, or most of the time"). The DASS21 contains 21 items and three

subscales (depression, anxiety and stress). Each subscale contains seven items. Both subscales yield a high level of internal consistency with Cronbach's α = .94 for the depression subscale and Cronbach's α = .87 for the anxiety subscale (Antony, Bieling, Cox, Enns & Swinson, 1998). The Cronbach's α for the depression and anxiety subscales in the current study are .91 and .84 respectively, which are closer to the values in the previous testing. Furthermore, the study also demonstrates a high level of convergent and divergent validity when compared to other measurements of depression and anxiety (Antony, Bieling, Cox, Enns & Swinson, 1998; Henry & Crawford, 2005).

Life satisfaction. The Satisfaction with Life Scale (SWL) is a five-item scale used to measure individuals' perspective on their life satisfaction (Diener, Emmons, Larsen & Griffin, 1985). It is measured on a 7-point Likert scale ($1 = strongly \ disagree$; $7 = strongly \ agree$). Many investigations have shown that the satisfaction with life scale does not discriminate against age and sex, which makes it suitable across a general population (e.g. Pavot, Diener, Colvin & Snadvik, 1991). SWL has demonstrated strong reliability with Cronbach's $\alpha = .87$ and strong test-retest reliability with Cronbach's $\alpha = .82$ (Diener, 1985). The Cronbach's α in the current study is slightly higher than that of the previous study with Cronbach's $\alpha = .91$, suggesting that the scale is a valid measurement of life satisfaction. In addition, SWL also shows strong construct validity. Review of the scale suggests that the items in the SWL sensitively detect individuals' life satisfaction under different circumstances (Pavot & Diener, 1993)

Positive affect. The Affect Balance Scale (ABS) is a self-report measure of satisfaction at the point of time (Bradburn, 1969; Schiaffino, 2003). There are two components in the scale, i.e. positive and negative affect, and five items in each component. For the purpose of this study, only positive affect components were used for investigation. ABS is measured with "yes" and "no". A score of 1 is allocated for a "yes" response; the

higher the scores, the higher the positive affect (Schiaffino, 2003). The ABS demonstrates strong internal consistency reliability on the positive affect with Cronbach's α range between .55 and .73 (Schiaffino, 2003). The Cronbach's α for the current study is .71, which is similar to that of the previous study. Besides that, the test-retest reliability over a 3-day period has Cronbach's α of .83 (Bradburn, 1969). Furthermore, the strong convergent and discriminant validity indicate that it is a valid means of measuring satisfaction of well-being (McDowell & Praught, 1982).

Sense of coherence. The Sense of Coherence Scale (SOC) is a self-report measure of generalized views of the world (Antonovsky, 1993). It is a 29-item scale which measures three constructs: comprehensibility, manageability, and meaningfulness (Antonovsky, 1993). Each statement is measured with a 7-point Likert scale where the interpretation of the scale is different on each statement. Due to the nature of the present study, only one construct (meaningfulness), which contains eight items, was used for the current study. Studies show that the SOC is strong in reliability and validity and can be applied to a general population or clinical patients (Flensborg-Madsen, Ventegodt & Merrick, 2005; Pallant & Lae, 2002; Eriksson & Lindstrom, 2005). The internal consistency reliability measured with Cronbach's α ranges from .70 to .95 in various studies (Eriksson & Lindstrom, 2005). The Cronbach's α in the current study is .85, which is a moderate level compared to that of the previous finding. The test-retest reliability measured with Cronbach's α ranges from .92 (one week) to .77 (six months; Eriksson & Lindstrom, 2005). However, a review of SOC indicates that the SOC has moderate validity (see Eriksson & Lindstrom, 2005 for review).

Design and Procedure

The current study was correlational, cross-sectional study. Prior to conducting the study, the ethics approval for the study was granted by the university ethics committee, i.e. Bond University Human Research Ethic Committee as presented in Appendix A. The current

study was an online study, which was completed through PsychData. Prior to the study, the respondents were required to read the provided explanatory statement. The explanatory statement provided the details on confidentiality and the aims of the study and stated that the respondents could withdraw from the study without any penalty against them. The survey contained a questionnaire, which included demographic questions (as stated above). The estimated time to complete the survey was 30 to 40 minutes. The respondents were required to complete all the items in the survey. However, the respondents were given the option of not responding to the items if the questions were not applicable to them.

The respondents were recruited through various methods such as the SONA participation pools, chain sampling (friends of friends), through family members and social media network sites (e.g. Facebook). In addition, the psychology students from Bond University were recruited for the study. The students took part in the survey as a requirement of their studies. Credit points were given to the students who signed up for the survey through the participation pools. The respondents were required to complete the survey using their own devices at their convenience. The location and time for completing the survey were unknown.

Results

Data Diagnosis and Assumption Checking

All the analyses were conducted using IBM SPSS Statistic Software 22. Prior to the main analyses, data diagnostics were performed to identify the missing values of different variables. All the missing values in the data were identified and they were fewer than 5% as suggested by Tabachnick and Fidell (2013). However, the Impact of Life Events Scale-Revised has 6% of the missing values, buy this did not have any major influence on the study. The missing values were imputed using expectation maximization, which is an effective technique often used to manage missing data since it has the advantage of overcoming some

of the limitations and errors found in other techniques such as mean substitution (Schafer & Olsen, 1998).

To check the assumptions of the mediated multiple regression, a series of data analyses were conducted. The sample size of the current study had a minimum power requirement of .80, suggesting that it was sufficient to for significant test and less likely to make a Type II error (Cohen, 1992). In addition, the outliners, normality, linearity, homoscedasticity and independence of residual tested using the Malalanobis distance, a histogram, a box and whisker plot, a normal P-P plot and a scatter plot suggests that there is no violation of the assumption. The findings suggested that there were no outliners in the study and it will not affect the precision of estimation on the regression model (Tabachnick & Fidell, 2013). In other word, this will not increase the Type I and Type II errors.

However, Table 1 shows that the skewness on negative RCOPE, depression anxiety and positive affect suggests that the data may not be normally distributed. In addition, the standard deviation of depression and anxiety exceeds the mean scores, suggesting that the data are spread from the mean. Since the study investigated normal populations, the low scores in negative RCOPE, depression and anxiety and the high scores in positive affect were expected. In addition, the data transformation will not change the skewness of these variables. The alpha level for the current investigation was set at .05.

Table 1
Summary of the descriptive statistics of each variable, N=84

	Mean	S.D.	Minimum	Maximum	Skewness	Kurtosis
Impact of life events	2.81	2.32	0	12.09	1.13	1.87
Intrinsic religious orientation	14.15	6.53	6	30	0.63	-0.42
Positive RCOPE	13.10	6.16	7	28	1.09	-0.01
Negative RCOPE	8.76	3.32	7	21	2.21	4.35
Understanding of life events	59	14.84	19	80	-0.50	-0.30
Depression	7.90	9.03	0	42	1.53	2.33
Anxiety	5.67	6.84	0	36	2.05	5.29
Life satisfaction	23	7.69	5	35	-0.65	-0.32
Positive affect	3.86	1.35	0	5	-1.05	0.27
Sense of coherence	41.63	9.26	20	56	-0.35	-0.92

Note. Positive RCOPE = Positive religious meaning-making coping; Negative RCOPE = Negative religious meaning making coping.

On the other hand, the assumption of the multicollinearity and singularity was tested and satisfied, as presented in Table 2 showing that the correlation of the variables is below .70 for multicollinearity and below .90 for singularity. However, the correlation between the intrinsic religious orientation and positive religious coping is r = .79, p < 0.01. The correlation was expected since the previous literature and investigation suggested that both variables have a similar construct.

Table 2 $Summary\ of\ Pearson\ Correlation\ on\ the\ Variables,\ N=84$

	1	2	3	4	5	6	7	8	9	10	11
1. Religious interest	1										
2. Impact of life events	.03	1									
3. Intrinsic religious orientation	.61**	.09	1								
4. Positive RCOPE	.50**	.09	.79**	1							
5. Negative RCOPE	.23*	.25*	.16	.36**	1						
6. Understanding of life events	.01	55**	07	02	20	1					
7. Depression	.00	.50**	04	07	.23*	58**	1				
8. Anxiety	10	.49**	07	05	.26*	42**	.64**	1			
9. Life Satisfaction	03	37**	01	.07	23*	.42**	44**	13	1		
10. Positive Affect	.07	30**	.03	.04	07	.44**	56**	19	.62**	1	
11. Sense of coherence	03	33**	14	04	23*	.55**	67**	37**	.54**	.66**	1

Note. **p<.001, *p<.05

Main Analyses

The correlational analysis. To test the hypothesis that individuals' intrinsic religious orientation is related to the impact of their life events and understanding of the events, a bivariate Pearson correlation was conducted. As shown in Table 2, individuals' intrinsic religious orientation has no relationship with the impact of their life events and understanding of their life events as the findings reveal no significant relationship between these three variables. This suggests that individual religious orientation does not influence the impact of life events and understanding of life events. Furthermore, to test the relationship between intrinsic religious orientation and indicators of psychological adjustment (depression, anxiety, life satisfaction, positive affect and a sense of coherence), the correlations show that there is no significant relationship between individual religious orientation and any psychological adjustment outcome. However, there is a significant correlation between intrinsic religious orientation and positive religious meaning-making coping, but there is no significant correlation between individuals' religious orientation and negative religious meaning-making coping. In addition, the correlation shows that there is no significant correlation relationship between positive religious meaning-making coping and psychological adjustment. However, there is a significant correlation relationship between negative religious meaning-making coping and psychological adjustment (depression, anxiety, life satisfaction and sense of coherence) as presented in Table 2.

The Mediation Analysis

To test the hypothesis that positive and negative religious meaning-making coping will mediate the relationship between intrinsic religious orientation and psychological adjustment (depression, anxiety, life satisfaction, positive affect and a sense of coherence), regression analyses were conducted using the PROCESS marco (Hayes, 2013). As presented in Appendix B, intrinsic religious orientation was entered as the independent variable (X),

psychological adjustment was entered as the outcome/dependent variable (Y), positive and negative religious meaning-making coping was entered as the mediator (M_1 and M_2) and religious and spiritual interest was entered as the covariate. The partial mediation model is presented in Figure 1. A bias-corrected bootstrapping approach was applied with 5000 samples to test the indirect effect of the mediation analysis. In addition, the current investigation used an unstandardized score for the dependent variable and the mediator variable, making the approach different to the traditional approach. As suggested by Hayes (2013), unstandardized scores will not influence the outcome of the study and can be compared across different studies (see Gelfan, Mensinger & Tenhave, 2009 for reviews). The summarized mediation outcomes are presented in Table 3, Table 4, Table 5, Table 6, and Table 7.

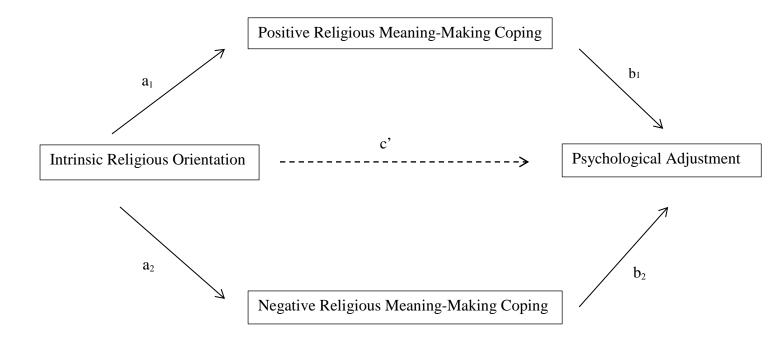


Figure 1. A single-step multiple mediator model with two mediators

Depression. A mediation analysis was conducted to test the hypothesis that positive and negative religious meaning-making coping mediate the relationship between intrinsic religious orientation and depression. As seen in Table 4, there is a significant relationship between intrinsic religious orientation and positive religious meaning-making coping (b = 0.73, p < .001), but there is no significant relationship between positive religious meaning-making coping and depression (b = -0.43, p = .126). On the other hand, intrinsic religious orientation does not have any significant relationship with negative religious meaning-making coping (b = 0.02, p = .821), but negative religious meaning-making coping has a significant relationship with depression (b = 0.85, p = .011) as presented in Table 4. A biascorrected bootstrap confidence interval for the indirect effect of the positive religious meaning-making coping (b = -.32, SE = 0.18, 95% CI = -.674, .024) and negative religious meaning making coping (b = .01, SE = 0.81, 95% CI = -.166, .151) based on 5000 bootstrap sample is below zero, suggesting that there is no mediation effect.

Table 3 $Regression\ Coefficients,\ Standard\ Errors,\ and\ the\ Summary\ Information\ on\ the\ Positive\ and\ Negative\ Religious\ Meaning-Making\ Coping$ $Mediation\ of\ the\ Relationship\ between\ Intrinsic\ Religious\ Orientation\ and\ Depression,\ N=84$

		Consequences												
	•	Positive RCOPE				Negative RCOPE				Depression				
Antecedent	<u> </u>	Coeff.	SE	p	_	Coeff	SE	p		Coeff.	SE	p		
Intrinsic Religious Orientation	a_1	.73	.08	<.001	a_2	.01	.07	.821	c'	.23	.27	.405		
Positive RCOPE									b_1	43	.28	.126		
Negative RCOPE									b_2	.85	.33	.011		
Constant	$i_{ m m1}$	2.73	1.17	.022	i_{m2}	8.45	1.01	<.001	$i_{ m y}$	2.91	3.76	.441		
		$R^2 = .63$ $F(2,81) = 69.03, \ p < .001$			$R^2 = .06$					$R^2 = .08$				
						F(2,81) = 2.37, p = .099				F(4,79) = 1.83, p = .132				

Note. Postive RCOPE = Positive Religious Meaning-Making Coping; Negative RCOPE = Negative Religious Meaning-Making Coping; Coeff. = Unstandardized Coefficient; SE = Standard Error; i = Intercept.

Anxiety. A mediation analysis was conducted to test the hypothesis that positive and negative religious meaning-making coping mediate the relationship between intrinsic religious orientation and anxiety. As seen in Table 5, there is a significant relationship between intrinsic religious orientation and positive religious meaning-making coping (b = 0.73, p < .001), but there is no significant relationship between positive religious meaning making coping and anxiety (b = -0.19, p = .357). On the other hand, intrinsic religious orientation does not have any significant relationship with negative religious meaning-making coping (b = 0.02, p = .821), but negative religious meaning-making coping has a significant relationship with depression (b = 0.69, p = .006) as presented in Table 5. A biascorrected bootstrap confidence interval for the indirect effect of the positive religious meaning-making coping (b = -0.14, SE = 0.14, 95% CI = -.435, .139) and negative religious meaning making coping (b = -0.01, SE = 0.06, 95% CI = -.118, .130) based on a 5000-bootstrap sample is below zero, suggesting that there is no mediation effect.

Table 4 $Regression\ Coefficients,\ Standard\ Errors,\ and\ Model\ Summary\ Information\ on\ the\ Positive\ and\ Negative\ Religious\ Meaning-Making\ Coping$ $Mediate\ the\ Relationship\ between\ Intrinsic\ Religious\ Orientation\ and\ Anxiety,\ N=84$

	Consequent													
	•	Positive RCOPE				Negative RCOPE				Anxiety				
Antecedent	 .	Coeff.	SE	p		Coeff	SE	p		Coeff.	SE	p		
Intrinsic Religious Orientation	a_1	.73	.08	<.001	a_2	.01	.07	.821	<i>c</i> '	.11	.21	.593		
Positive RCOPE									b_1	19	.21	.357		
Negative RCOPE									b_2	.69	.24	.006		
Constant	i_{m1}	2.73	1.17	.022	i_{m2}	8.45	1.01	<.001	i_y	.68	.281	.807		
		$R^2 = .63$				$R^2 = .06$ F(2,81) = 2.37, p = .099				$R^2 = .10$				
		F(2,81)	$F(2,81) = 69.03, \ p < .001$							F(4,79) = 2.26, p = .071				

Note. Postive RCOPE = Positive Religious Meaning-Making Coping; Negative RCOPE = Negative Religious Meaning-Making Coping; Coeff. = Unstandardized Coefficient; *SE* = Standard Error; i = Intercept.

Life Satisfaction. A mediation analysis was conducted to test the hypothesis that positive and negative religious meaning-making coping mediate the relationship between intrinsic religious orientation and life satisfaction. As seen Table 6, there is a significant relationship between intrinsic religious orientation and positive religious meaning-making coping (b = 0.73, p < .001). Furthermore, a significant relationship exists between positive religious meaning-making coping and life satisfaction (b = 0.55, p = .023) as presented in Table 6. On the other hand, intrinsic religious orientation does not have any significant relationship with negative religious meaning-making coping (b = 0.02, p = .821), but negative religious meaning-making coping has a significant relationship with life satisfaction (b = -0.79, p = .005). A bias-corrected bootstrap confidence interval for the indirect effect of the positive religious meaning-making coping (b = 0.39, SE = 0.18, 95% CI = .049, .759) based on a 5000-bootstrap sample is above zero, suggesting that there is no mediation effect. At the negative religious meaning making coping (b = -0.01, SE = 0.07, 95% CI = -.121, .156) based on a 5000-bootstrap sample is below zero, suggesting that there is no mediation effect

Table 5

Regression Coefficients, Standard Errors, and the Summary Information on the Positive and Negative Religious Meaning-Making Coping

Mediation of the Relationship between Intrinsic Religious Orientation and Life Satisfaction, N = 84

						Cor	nsequence	es				
		Pos	itive RCC	PE		Neg	gative RC	OPE		Life	Satisfact	tion
Antecedent		Coeff.	SE	p	<u> </u>	Coeff	SE	p	_	Coeff.	SE	p
Intrinsic Religious Orientation	a_1	.73	.08	<.001	a_2	.01	.07	.821	<i>c</i> '	37	.23	.110
Positive RCOPE									b_1	.55	.23	.022
Negative RCOPE									b_2	79	.27	.005
Constant	i_{m1}	2.73	1.17	.022	i_{m2}	8.45	1.01	<.001	i_Y	28.08	3.14	<.001
			$R^2 = .63$				$R^2 = .06$				$R^2 = .11$	
		F(2,81)	= 69.03,	<i>p</i> < .001		F(2,81)	$= 2.37, \mu$	p = .099		F(4,79)	= 2.59, p	p = .043

Note. Postive RCOPE = Positive Religious Meaning-Making Coping; Negative RCOPE = Negative Religious Meaning-Making Coping; Coeff. = Unstandardized Coefficient; SE = Standard Error; i = Intercept.

Positive Affect. A mediation analysis was conducted to test the hypothesis that positive and negative religious meaning-making coping mediate the relationship between intrinsic religious orientation and positive affect. As seen in Table 7, there is a significant relationship between intrinsic religious orientation and positive religious meaning-making coping (b = 0.73, p < .001), but there is no significant relationship between positive religious meaning making coping and positive affect (b = 0.03, p = .512). On the other hand, intrinsic religious orientation does not have any significant relationship with negative religious meaning-making coping (b = 0.02, p = .821) and there is no significant relationship between negative religious meaning-making coping and positive affect (b = -0.05, p = .347) as presented in Table 7. A bias-corrected bootstrap confidence interval for the indirect effect of the positive religious meaning-making coping (b = 0.02, SE = 0.03, 95% CI = -.046, .083) and negative religious meaning making coping (b = -0.001, SE = 0.06, 95% CI = -.019, .006) based on a 5000- bootstrap sample is below zero, suggesting that there is no mediation effect.

Table 6 $Regression\ Coefficients,\ Standard\ Errors,\ and\ the\ Summary\ Information\ on\ the\ Positive\ and\ Negative\ Religious\ Meaning-Making\ Coping$ $Mediation\ of\ the\ Relationship\ between\ Intrinsic\ Religious\ Orientation\ and\ Positive\ Affect,\ N=84$

						Co	nsequenc	es				
		Pos	itive RCC	PE		Neg	gative RC	OPE		Pos	sitive Aff	ect
Antecedent		Coeff.	SE	p	_	Coeff	SE	p		Coeff.	SE	p
Intrinsic Religious Orientation	a_1	.73	.08	<.001	a_2	.01	.07	.821	c'	03	.04	.562
Positive RCOPE									b_1	.03	.04	.512
Negative RCOPE									b_2	05	.05	.347
Constant	i_{m1}	2.73	1.17	.022	i_{m2}	8.45	1.01	<.001	i_Y	4.23	.58	<.001
			$R^2 = .63$				$R^2 = .06$				$R^2 = .02$	
		F(2,81)	= 69.03, p	o < .001		F(2,81)	= 2.37,	p = .099		F(4,79)	= 1.89, j	p = .847

Note. Postive RCOPE = Positive Religious Meaning-Making Coping; Negative RCOPE = Negative Religious Meaning-Making Coping; Coeff. = Unstandardized Coefficient; SE = Standard Error; i = Intercept.

Sense of Coherence. A mediation analysis was conducted to test the hypothesis that positive and negative religious meaning-making coping mediate the relationship between intrinsic religious orientation and a sense of coherence. As seen in Table 8, there is a significant relationship between intrinsic religious orientation and positive religious meaning-making coping (b = 0.73, p < .001), but there is no significant relationship between positive religious meaning making coping and positive affect (b = 0.55, p = .056). On the other hand, intrinsic religious orientation does not have any significant relationship with negative religious meaning-making coping (b = 0.02, p = .821), but there is a significant relationship between negative religious meaning-making and a sense of coherence (b = -0.87, p = .009). A bias-corrected bootstrap confidence interval for the indirect effect of the positive religious meaning-making coping (b = 0.40, SE = 0.20, 95% CI = -.013, 0.804) and negative religious meaning making coping (b = -0.01, SE = 0.08, 95% CI = -.156, .160) based on a 5000-bootstrap sample is below zero, suggesting there is no mediation effect.

Table 7 $Regression\ Coefficients,\ Standard\ Errors,\ and\ the\ Summary\ Information\ on\ the\ Positive\ and\ Negative\ Religious\ Meaning-Making\ Coping$ $Mediation\ of\ the\ Relationship\ between\ Intrinsic\ Religious\ Orientation\ and\ Sense\ of\ Coherence,\ N=84$

						Co	nsequenc	es					
		Pos	Positive RCOPE			Negative RCOPE				Sense of Coherence			
Antecedent		Coeff.	SE	p	_	Coeff	SE	p		Coeff.	SE	p	
Intrinsic Religious Orientation	a_1	.73	.08	<.001	a_2	.01	.07	.821	c'	65	.28	.021	
Positive RCOPE									b_1	.55	.28	.055	
Negative RCOPE									b_2	87	.328	.009	
Constant	i_{m1}	2.73	1.17	.022	i_{m2}	8.45	1.01	<.001	$i_{\rm Y}$	51.21	3.79	<.001	
			$R^2 = .63$				$R^2 = .06$				$R^2 = .11$		
		F(2,81)	= 69.03,	<i>p</i> < .001		$F(2,81) = 2.37, \ p = .099$				F(4,79) = 2.55, p = .046			

Note. Postive RCOPE = Positive Religious Meaning-Making Coping; Negative RCOPE = Negative Religious Meaning-Making Coping; Coeff. = Unstandardized Coefficient; SE = Standard Error; i = Intercept.

Discussion

The aim of the current investigation is to examine the relationship between religious orientation and psychological adjustment (depression, anxiety, life satisfaction, positive affect and sense of coherence) when it is mediated by positive and negative religious meaningmaking coping and covariate by individuals' religious and spiritual interest. The findings of the current study showed that the hypothesis was not supported.

The current study hypothesized that intrinsic religious orientation would be related to the impact of life events and the understanding of life events. However, the findings revealed that intrinsic religious orientation does not relate to either the impact of life events or the understanding of life events. This finding demonstrated that the hypothesis is not supported. In addition, the current study also hypothesized that there would be a positive relationship between intrinsic religious orientation and psychological adjustment (low depression and anxiety; better life satisfaction, positive affect and sense of coherence). The findings showed that there was no positive correlation between intrinsic religious orientation and psychological adjustment. This finding was inconsistent with previous literature and investigations which suggested that intrinsic religious orientation was related to better psychological well-being (e.g. Shreve-Neiger & Edelstein, 2004). Furthermore, it was hypothesized that intrinsic religious orientation would be related to positive and negative religious meaning-making coping, but the hypothesis was not supported for negative religious meaning-making coping. The findings demonstrated that intrinsic religious orientation only related to positive religious meaning-making coping. This suggested that individuals who reported higher in intrinsic religious orientation were more likely to using positive religious meaning-making coping.

In addition, the study hypothesized that positive and negative religious meaningmaking coping would be related to psychological adjustment. However, the findings revealed that positive religious meaning-making coping does not correlate with better psychological adjustment (low depression and anxiety and higher scores in life satisfaction, positive affect and sense of coherence). This finding was inconsistent with previous studies and investigation (i.e., Gerber, Boals & Schuettler, 2011) which suggested that positive religious meaning-making coping is beneficial to individuals' well-being. On the other hand, the findings demonstrate that there is significant correlation between negative religious meaning-making coping and psychological adjustment. This finding suggested that negative religious coping is related to negative outcome (high depression and anxiety, low life satisfaction, positive affect and sense of coherence). This finding was consistent with previous studies and investigations (i.e., Hebert, Zdaniuk, Schulz & Scheier, 2009) which suggested that negative religious meaning-making coping is related to negative well-being.

In addition, the current study also hypothesized that the relationship between intrinsic religious orientation and psychological adjustment would be mediated by the positive and negative religious meaning-making coping. This was not supported. The finding suggested that the mediation effect was only found for life satisfaction. This finding was inconsistent with Park's (2005) study. Park's study suggested that meaning-making coping mediated the relationship between religion and well-being. However, the findings in the current study suggested that an indirect effect was only found in the life satisfaction. As presented in Table 6 shows that positive religious meaning-making coping has an indirect effect on intrinsic religious orientation and life satisfaction. The effect accounted for 11% for life satisfaction. Although the effect was small, this suggested that positive religious meaning-making coping does contribute to better adjustment for intrinsic religious orientation and life satisfaction. However, it should be aware that the concept of the life satisfaction measured in the current study was a broad construct. There life satisfaction questionnaires used in the current study was only contained 5 questions. It was not specific enough to measure individuals'

perspective of life satisfaction. Therefore, the outcome of the current study should be interpreted with caution.

Although the findings were inconsistent with Park's (2005) study, but it had demonstrated that the meaning-making does lead to better psychological adjustment. The findings showed that positive religious meaning-making coping mediated the relationship between intrinsic religious orientation and life satisfaction. This suggested that meaning-making coping lead to well-being. As suggested in Park's (2010) meaning-making coping model suggested quality of the meaning-making coping helps individuals cope with their traumatic and stressful life events. Many researches have demonstrated that positive meaning-making attempted by individuals subsequently lead to better adjustment compared to the negative meaning-making coping which lead to poorer psychological outcome such as depression and anxiety (see Park, 2010 for review).

The inconsistencies of the findings in the current study can be explained. The current study revealed that intrinsic religious orientation is not related to either the impact of the life events, understanding of life events or psychological adjustment. This was inconsistent with the previous investigations. The majority of the sample used in the current study was Australian. The Australian Social Trends Report (Australian Bureau of Statistics, 2013) showed that 98% of the population reported that they have no religion. The report provided additional information showing that the majority of them are Atheists or Agnostics. The intention of the current study was to investigate individuals' religious orientation and religious coping that lead to better psychological adjustment. However, the result shows that religious orientation and religious coping do not lead to better psychological adjustment. This suggests that religion is not the main protective factor that leads to individuals' well-being. To solve this problem, the future study needed to target a population of religious

communities, to investigate the influence of religious orientation and religious coping on psychological adjustment.

Furthermore, the criticism of the intrinsic religious orientation scale by Kirkpatric and Hood (1990) and Donahue (1985) suggested that the scale does not measure what it intended to measure. They suggested that the items of the scale are poorly constructed. This may threaten the validity of the study (Reynolds & Livingston, 2012). The poorly constructed items may cause the result in measurement not measuring the construct it is supposed to measure. In the current study, 56% of the respondents reported they have religious or spiritual interest. Although the Australia Bureau of Statistics report showed that the Australian population hold no religion, they may have religious or spiritual interested. This suggests that the population does have religious belief or spiritual faith, but that the traditional approach is not applicable to investigate the current religious and spiritual interests held by the current population groups. Therefore, an alternative measure for religiousness such as the multidimensional measure of religiousness/spirituality is recommended (Traphagan, 2005). The multidimensional measure of religiousness/spirituality is a measure of religiousness which covering a broader construct of measuring individuals' religiousness. This allowed the study has better generalisability and practicability.

Additionally, the findings of the current study were inconsistent with Park's (2005) study. The current study uses a different meaning-making measurement to measure the meaning-making coping process. The Brief COPE and Brief RCOPE used in Park's study and the current study were not designed to measure the meaning-making coping process. The interpretation from these measurements may have contributed to the different outcome of the study. The findings revealed that negative religious meaning-making coping does not mediate the relationship between intrinsic religious orientation and psychological adjustment. However, the findings showed that positive religious meaning-making coping mediated the

relationship between intrinsic religious orientation and psychological adjustment (life satisfaction and sense of coherence). Although the effect size of the mediation is small, and it only accounted for small variation, it suggested that positive religious meaning-making does lead to better psychological adjustment.

Although, an indirect effect was found for adjustment when conceptualized as life satisfaction, the effect accounted for only 11% of the total variation. This suggested 89% of the variance was accounted for by other factors. Gillies, Neimeyer and Milman's (2014) study suggested that personal growth and family bond are the highest coping strategy reported as a coping method for stressful life events. This suggests that religious coping may not be the main protective factors for individuals' well-being. Perhaps, investigations on personal growth and social support should be considered in future study.

There are several limitations in the current study. The current study focused on the general healthy population instead of population groups which have suffered major stressful or traumatic life events. Additionally, the study also focused on the population which has low religious and spiritual interest. This may had influenced the outcome of the study. General healthy population may hold different perspective of the stressful or traumatic life events compare to population groups who have suffered stressful or traumatic life events. To improve the limitations, the future study should focus on specific population group such as patient with depression or suffered post-traumatic stress disorder. Additionally, to study how individuals' religiousness influences the meaning-making coping and psychological adjustment, the study should also focus on religion community. This allowed researcher to examine the effect of religion.

Furthermore, the major limitation was there is no universal scale to measure meaning-making coping or religious meaning-making coping. As mentioned earlier, alternative scales such as Brief COPE and Brief RCOPE does not measure individuals' meaning-making

coping processes. The design of the scale was not intended to measure meaning-making coping. This may poses a threat to the internal validity on the current study. Additionally, there is no empirical study to support the operational definition of the meaning-making model (Park, 2010 for reviews). Park's (2010) reviews showed that there is inconsistency of operation definition and measurement in meaning-making model which demonstrated different findings and investigations. Additionally, the design of the current study was cross-sectional design, which the data only collected one point at the time. Hoyle & Robison (2003) suggested that to the mediation a longitudinal study is recommended to test the effect of variables over time. Further study should focus on these problems such as a using better meaning-making scale, a clear operational definition on meaning-making and conducted a longitudinal study.

Additionally, the current study design was a self-report measurement. This may increase the chance of social desirability such as faking good or faking bad. This social desirability will threaten the validity and generalisability of the current study (Reynolds & Livingston, 2010). Besides that, using undergraduate psychology students for the investigation, who may have knowledge in this area, could potentially influence the outcome of the current investigation. Furthermore, the current study does not utilise counterbalancing on the survey. By utilizing counterbalancing, it will reduce the inadvertent cues which provide additional information about the current study. Future research should take on these issues into consideration.

Although limitations are found, the current study has provided a small contribution to the empirical findings for the meaning-making model. The findings of the current study demonstrated that religious meaning-making coping does mediate the relationship between intrinsic religious orientation and psychological adjustment when conceptualized as life satisfaction. This suggests that religious coping does benefit individuals' well-being. Thus,

clinicians or counsellors should be aware of the importance of the religious meaning-making coping which is beneficial to individuals' well-being. By including other factors such as social support, it will increase the effectiveness of positive religious meaning-making coping to manage with stressful or traumatic life events. In addition, clinicians and counsellors should be aware of the role of negative religious meaning-making coping, that is harmful for individuals' well-being such as increasing depression and anxiety (Ano & Vasconcelles, 2005). Furthermore, by increasing their understanding of the meaning-making coping process on patients, clinicians and counsellors can adjust their strategies and provide better care to individuals who have difficulties to coping with stressful or traumatic life events.

In conclusion, although the findings of the current study were inconsistent with the hypotheses, they have potentially contributed to the understanding of individuals' meaning-making on stressful or traumatic life events. Despite the knowledge gaps in the current findings that required further understanding, Park's (2010) meaning-making model has demonstrated a well establishing model which proposed the relationship between meaning-making coping and stressful or traumatic life experience.

References

- Ai, A. L., Cascio, T., Santangelo, L. K., & Evans-Campbell, T. (2005). Hope, meaning, and growth following the September 11, 2001, terrorist attacks. *Journal of Interpersonal Violence*, 20(5), 523-548. doi: 10.1177/0886260504272896
- Ai, A. L., Park, C. L., Huang, B., Rodgers, W., & Tice, T. N. (2007). Psychosocial mediation of religious coping styles: A study of short-term psychological distress following cardiac surgery. *Personality and Social Psychology Bulletin*, *33*(6), 867-882. doi: 10.1177/0146167207301008
- Allport, G. W., & Ross, J. M. (1967). Presonal religious orientation and prejudice. *Journal of Personality and Social Psychology*, 5(4), 432-&. doi: 10.1037/0022-3514.5.4.432
- Ano, G. G., & Vasconcelles, E. B. (2005). Religious coping and psychological adjustment to stress: A meta-analysis. *Journal of Clinical Psychology*, 61(4), 461-480. doi: 10.1002/jclp.20049
- Antonovsky, A. (1993). The structure and properties of the Sense of Coherence scale. Mar 1993. *Social Science & Medicine*, .36(6), pp. doi: 10.1016/0277-9536%2893%2990033-Z
- Antony, M. M., Bieling, P. J., Cox, B. J., Enns, M. W., & Swinson, R. P. (1998).
 Psychometric properties of the 42-item and 21-item versions of the Depression
 Anxiety Stress Scales in clinical groups and a community sample. *Psychological Assessment*, 10(2), 176-181. doi: 10.1037//1040-3590.10.2.176
- Ardelt, M., & Koenig, C. S. (2007). The Importance of Religious Orientation and Purpose in Life for Dying Well: Evidence from Three Case Studies. *Journal of Religion*, *Spirituality & Aging*, 19(4), 61-79. doi: 10.1300/J496v19n04_05

- Australian Bureau of Statistics. (2013). *Australian Social Trends, Nov 2013*(cat. no. 4102.0). Retrieved from

 http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/4102.0Main+Features30Nov+2013
- Bjorck, J. P., & Thurman, J. W. (2007). Negative life events, patterns of positive and negative religious coping, and psychological functioning. *Journal for the Scientific Study of Religion*, 46(2), 159-167. doi: 10.1111/j.1468-5906.2007.00348.x
- Boehmer, S., Luszczynska, A., & Schwarzer, R. (2007). Coping and quality of life after tumor surgery: Personal and social resources promote different domains of quality of life. *Anxiety Stress and Coping*, 20(1), 61-75. doi: 10.1080/10615800701195439
- Bradburn, N. M. (1969). *The structure of psychological well-being. 1969*. The structure of psychological well-being. xvi, 318 pp. Oxford, England: Aldine; England.
- Brune, M., Haasen, C., Krausz, M., Yagdiran, O., Bustos, E., & Eisenman, D. (2002). Belief systems as coping factors for traumatized refugees: a pilot study. *European Psychiatry*, *17*(8), 451-458. doi: 10.1016/s0924-9338(02)00708-3
- Carver, C. S., Scheier, M. F., & Weintraub, J. K. (1989). Assessing coping strategies: A theoretically based approach. *Journal of Personality and Social Psychology*, .56(2), pp. doi: 10.1037/0022-3514.56.2.267 2926629
- Casey, L. & Pui-Tak (2014) 'Stress and wellbeing in Australia survey 2014: The state of the nation three years on, and Special feature on maintain a healthy lifestyle. *The Australian Psychological Society*. Retrieved from http://www.psychology.org.au/psychologyweek/survey/
- Cohen, A. B., Pierce, J. D., Chambers, J., Meade, R., Gorvine, B. J., & Koenig, H. G. (2005). Intrinsic and extrinsic religiosity, belief in the afterlife, death anxiety, and life satisfaction in young Catholics and Protestants. *Journal of Research in Personality*, 39(3), 307-324. doi: 10.1016/j.jrp.2004.02.005

- Cohen, J. (1992). A power primer. *Psychological Bulletin*, .112(1), pp. doi: 10.1037/0033-2909.112.1.155 19565683
- Compton, W. C. (2005). *Introduction to positive psychology*. Australia Belmont, CA.
- Creamer, M., Bell, R., & Failla, S. (2003). Psychometric properties of the Impact of Event Scale-Revised. *Behaviour Research and Therapy*, .41(12), pp. doi: 10.1016/j.brat.2003.07.010 14705607
- Davis, C. G., Nolen-Hoeksema, S., & Larson, J. (1998). Making sense of loss and benefiting from the experience: Two construals of meaning. *Journal of Personality and Social Psychology*, 75(2), 561-574. doi: 10.1037/0022-3514.75.2.561
- Diener, E., Emmons, R. A., Larsen, R. J., & Griffin, S. (1985). The satisfaction with life scale Journal of Personality Assessment, 49(1), 71-75. doi: 10.1207/s15327752jpa4901_13
- Donahue, M. J. (1985). Intrinsic and extrinsic religiousness review and meta-analysis *Journal of Personality and Social Psychology*, 48(2), 400-419. doi: 10.1037/0022-3514.48.2.400
- Eriksson, M., & Lindstrom, B. (2005). Validity of Antonovsky's sense of coherence scale: a systematic review. *Journal of Epidemiology and Community Health*, 59(6), 460-466. doi: 10.1136/jech.2003.018085
- Farran, C. J., Miller, B. H., Kaufman, J. E., & Davis, L. (1997). Race, finding meaning, and caregiver distress. *Journal of Aging and Health*, *9*(3), 316-333. doi: 10.1177/089826439700900303
- Flensborg-Madsen, T., Ventegodt, S., & Merrick, J. (2005). Why is Antonovsky's sense of coherence not correlated to physical health? Analysing Antonovsky's 29-item sense of coherence scale (SOC-29). *Thescientificworldjournal*, *5*, 767-776. doi: 10.1100/tsw.2005.89

- Flensborg-Madsen, T., Ventegodt, S., & Merrick, J. (2006). Sense of coherence and health.

 The construction of an amendment to Antonovsky's sense of coherence scale (SOC II). *Thescientificworldjournal*, 6, 2133-2139. doi: 10.1100/tsw.2006.342
- Gelfand, L. A., Mensinger, J. L., & Tenhave, T. (2009). Mediation analysis: A retrospective snapshot of practice and more recent directions. *Journal of General**Psychology, .136(2), pp. doi: 10.3200/GENP.136.2.153-178 19350833
- George, L. K., Larson, D. B., Koenig, H. G., & McCullough, M. E. (2000). Spirituality and health: What we know, what we need to know. *Journal of Social and Clinical Psychology*, *19*(1), 102-116. doi: 10.1521/jscp.2000.19.1.102
- Gerber, M. M., Boals, A., & Schuettler, D. (2011). The Unique Contributions of Positive and Negative Religious Coping to Posttraumatic Growth and PTSD. *Psychology of Religion and Spirituality*, *3*(4), 298-307. doi: 10.1037/a0023016
- Ghorbani, N., & Watson, P. J. (2006). Religious orientation types in Iranian Muslims: Differences in alexithymia, emotional intelligence, self-consciousness, and psychological adjustment. *Review of Religious Research*, 47(3), 303-310.
- Gillies, J., Neimeyer, R. A., & Milman, E. (2014). The Meaning of Loss Codebook:

 Construction of a System for Analyzing Meanings Made in Bereavement. *Death Studies*, 38(4), 207-216. doi: 10.1080/07481187.2013.829367
- Gorsuch, R. L., & McPherson, S. E. (1989). Intrinsic/Extrinsic Measurement: I/E-Revised and Single-Item Scales. *Journal for the Scientific Study of Religion*, 28(3), 348-354. doi: 10.2307/1386745
- Haber, J. R., Jacob, T., & Spangler, D. J. C. (2007). Dimensions of Religion/Spirituality and Relevance to Health Research. *The International Journal for the Psychology of Religion*, 17(4), 265-288. doi: 10.1080/10508610701572770

- Hayes, A. F. (2013). *Introduction to mediation, moderation, and conditional process* analysis: a regression-based approach. New York.
- Hayes, A. M., Beevers, C. G., Feldman, G. C., Laurenceau, J. P., & Perlman, C. (2005).
 Avoidance and processing as predictors of symptom change and positive growth in an integrative therapy for depression. *International Journal of Behavioral Medicine*,
 12(2), 111-122. doi: 10.1207/s15327558ijbm1202_9
- Hebert, R., Zdaniuk, B., Schulz, R., & Scheier, M. (2009). Positive and Negative Religious Coping and Well-Being in Women with Breast Cancer. *Journal of Palliative Medicine*, 12(6), 537-545. doi: 10.1089/jpm.2008.0250
- Hein, G. (1999). Is meaning making constructivism? Is constructivism meaning making?. *The Exhibitionist*, 18(2), 15-18.
- Helgeson, V. S., & Tomich, P. L. (2005). Surviving cancer: A comparison of 5-year disease-free breast cancer survivors with healthy women. *Psycho-Oncology*, *14*(4), 307-317. doi: 10.1002/pon.848
- Henry, J. D., & Crawford, J. R. (2005). The short-form version of the Depression Anxiety Stress Scales (DASS-21): Construct validity and normative data in a large non-clinical sample. *British Journal of Clinical Psychology*, 44, 227-239. doi: 10.1348/014466505x29657
- Holland, J. M., Currier, J. M., Coleman, R. A., & Neimeyer, R. A. (2010). The Integration of Stressful Life Experiences Scale (ISLES): Development and Initial Validation of a New Measure. *International Journal of Stress Management*, 17(4), 325-352. doi: 10.1037/a0020892
- Holmes, T. H., & Rahe, R. H. (1967). Social readjustment rating scale *Journal of Psychosomatic Research*, 11(2), 213-&. doi: 10.1016/0022-3999(67)90010-4

- Hoyle, R.H., & Robinson, J.I. (2003). Mediated and moderated effects in social psychological research: Measurement, design, and analysis issues. In C. Sansone, C. Morf, & A.T. Panter (Eds.), *Handbook of methods in social psychology* (pp. 213-234). Thousand Oaks, CA: Sage.
- Kirkpatrick, L. A., & Hood, R. W. (1990). Intrinsicxtrinsic religious orientation: The boon or bane of contemporary psychology of religion? Dec 1990. *Journal for the Scientific Study of Religion*, .29(4), pp. doi: 10.2307/1387311
- Janoff-Bulman, R., & Yopyk, D. J. (2004). Random outcomes and valued commitments:

 Existential dilemmas and the paradox of meaning. In J. Greenberg, S. L. Koole, & T.

 Pyszczynski (Eds), *Handbook of experimental existential psychology* (pp. 122 138),

 New York; Guilford Press.
- Krause, N., & Tran, T. V. (1989). Stress and religious involvement among older blacks *Journals of Gerontology*, 44(1), S4-S13.
- Kuijer, R. G., & de Ridder, D. T. D. (2003). Discrepancy in illness-related goals and quality of life in chronically ill patients: The role of self-efficacy. *Psychology & Health*, *18*(3), 313-330. doi: 10.1080/0887044031000146815
- Kuyel, N., Cesur, S., & Ellison, C. G. (2012). RELIGIOUS ORIENTATION AND MENTAL HEALTH: A STUDY WITH TURKISH UNIVERSITY STUDENTS. *Psychological Reports*, 110(2), 535-546. doi: 10.2466/02.09.pr0.110.2.535-546
- Lavric, M., & Flere, S. (2008). The role of culture in the relationship between religiosity and psychological well-being. *Journal of Religion & Health*, 47(2), 164-175. doi: 10.1007/s10943-008-9168-z
- Lichtenthal, W. G., Currier, J. M., Neimeyer, R. A., & Keesee, N. J. (2010). Sense and Significance: A Mixed Methods Examination of Meaning Making After the Loss of One's Child. *Journal of Clinical Psychology*, 66(7), 791-812. doi: 10.1002/jclp.20700

- Lovibond, P. F., & Lovibond, S. H. (1995). The structure of negative emotional states comparison of the depression anxiety stress scales (DASS) with the Beck's Depression and Anxiety Inventories *Behaviour Research and Therapy*, *33*(3), 335-343. doi: 10.1016/0005-7967(94)00075-u
- Luhmann, M., Hofmann, W., Eid, M., & Lucas, R. E. (2012). Subjective Well-Being and Adaptation to Life Events: A Meta-Analysis. *Journal of Personality and Social Psychology*, 102(3), 592-615. doi: 10.1037/a0025948
- Mackay, M. M., & Bluck, S. (2010). Meaning-Making in Memories: A Comparison of Memories of Death-Related and Low Point Life Experiences. *Death Studies*, 34(8), 715-737. doi: 10.1080/07481181003761708
- MacKenzie, M., & Baumeister, R. (2014). Meaning in Life: Nature, Needs, and Myths. In A. Batthyany & P. Russo-Netzer (Eds.), *Meaning in Positive and Existential Psychology* (pp. 25-37): Springer New York. Retrieved from EBL Parton
- Manne, S., Ostroff, J., Fox, K., Grana, G., & Winkel, G. (2009). Cognitive and social processes predicting partner psychological adaptation to early stage breast cancer. *British Journal of Health Psychology*, 14, 49-68. doi: 10.1348/135910708x298458
- Mattis, J. S. (2002). Religion and spirituality in the meaning-making and coping experiences of African American women: A qualitative analysis. *Psychology of Women Quarterly*, 26(4), 309-321. doi: 10.1111/1471-6402.t01-2-00070
- McDowell, I., & Praught, E. (1982). On the measurement of happiness. An examination of the Bradburn scale in the Canada Health Survey. *Am J Epidemiol*, 116(6), 949-958.
- Michl, L. C., McLaughlin, K. A., Shepherd, K., & Nolen-Hoeksema, S. (2013). Rumination as a Mechanism Linking Stressful Life Events to Symptoms of Depression and Anxiety: Longitudinal Evidence in Early Adolescents and Adults. *Journal of Abnormal Psychology*, 122(2), 339-352. doi: 10.1037/a0031994

- Moore, T., Norman, P., Harris, P. R., & Makris, M. (2006). Cognitive appraisals and psychological distress following venous thromboembolic disease: An application of the theory of cognitive adaptation. *Social Science & Medicine*, *63*(9), 2395-2406. doi: 10.1016/j.socscimed.2006.06.014
- Nooney, J., & Woodrum, E. (2002). Religious Coping and Church-Based Social Support as Predictors of Mental Health Outcomes: Testing a Conceptual Model. *Journal for the Scientific Study of Religion*, 41(2), 359-368. doi: 10.1111/1468-5906.00122
- Nordin, K., Wasteson, E., Hoffman, K., Glimelius, B., & Sjoden, P. O. (2001). Discrepancies between attainment and importance of life values and anxiety and depression in gastrointestinal cancer patients and their spouses. *Psycho-Oncology*, *10*(6), 479-489. doi: 10.1002/pon.536
- Nunnally, J. C., & Bernstein, I. H. (1994). Psychometric theory (3rd ed.). New York.
- Pakenham, K. I., & Cox, S. (2008). Development of the benefit finding in multiple sclerosis (MS) caregiving scale: A longitudinal study of relations between benefit finding and adjustment. *British Journal of Health Psychology, 13*, 583-602. doi: 10.1348/135910707x250848
- Pakenham, K. I., & Cox, S. (2009). The dimensional structure of benefit finding in multiple sclerosis and relations with positive and negative adjustment: A longitudinal study.

 *Psychology & Health, 24(4), 373-393. doi: 10.1080/08870440701832592
- Pallant, J. F., & Lae, L. (2002). Sense of coherence, well-being, coping and personality factors: further evaluation of the sense of coherence scale. *Personality and Individual Differences*, *33*(1), 39-48. doi: 10.1016/s0191-8869(01)00134-9
- Pargament, K., Feuille, M., & Burdzy, D. (2011). The Brief RCOPE: Current Psychometric Status of a Short Measure of Religious Coping. *Religions*, 2(1), 51-76. doi: 10.3390/rel2010051

- Pargament, K. I. (2011) Religion and coping: The current state of knowledge. In S. Folkman (Eds.), *The Oxford Handbook of Stress, Health, and Coping* (pp. 269 288). Oxford: Oxford University Press.
- Pargament, K. I., Koenig, H. G., & Perez, L. M. (2000). The many methods of religious coping: Development and initial validation of the RCOPE. *Journal of Clinical Psychology*, 56(4), 519-543. doi: 10.1002/(sici)1097-4679(200004)56:4<519::aid-jclp6>3.0.co;2-1
- Pargament, K. I., Koenig, H. G., Tarakeshwar, N., & Hahn, J. (2004). Religious coping methods as predictors of psychological, physical and spiritual outcomes among medically ill elderly patients: A two-year longitudinal study. *Journal of Health Psychology*, *9*(6), 713-730. doi: 10.1177/1359105304045366
- Pargament, K. I., Smith, B. W., Koenig, H. G., & Perez, L. (1998). Patterns of positive and negative religious coping with major life stressors. *Journal for the Scientific Study of Religion*, *37*(4), 710-724. doi: 10.2307/1388152
- Park, C. L. (2005). Religion as a Meaning-Making Framework in Coping with Life Stress. *Journal of Social Issues*, 61(4), 707-729. doi: 10.1111/j.1540-4560.2005.00428.x
- Park, C. L. (2007). Religiousness/spirituality and health: A meaning systems perspective. *Journal of Behavioral Medicine*, 30(4), 319-328. doi: 10.1007/s10865-007-9111-x
- Park, C. L. (2008). Testing the meaning making model of coping with loss *Journal of Social* & *Clinical Psychology*, 27(9), 970-994.
- Park, C. L. (2010). Making Sense of the Meaning Literature: An Integrative Review of Meaning Making and Its Effects on Adjustment to Stressful Life Events.

 *Psychological Bulletin, 136(2), 257-301. doi: 10.1037/a0018301

- Park, C. L. (2011). Meaning, coping, and health and well-being. In S. Folkman (Eds.), *The Oxford Handbook of Stress, Health, and Coping* (pp. 227 241). Oxford: Oxford University Press.
- Park, C. L., Cohen, L. H., & Murch, R. L. (1996). Assessment and prediction of stress-related growth. Mar 1996. *Journal of Personality*, .64(1), pp. doi: 10.1111/j.1467-6494.1996.tb00815.x 8656319
- Park, C. L., & Folkman, S. (1997). Meaning in the context of stress and coping. *Review of General Psychology*, .1(2), pp. doi: 10.1037/1089-2680.1.2.115
- Pavot, W., & Diener, E. (1993). The Affective and Cognitive Context of Self-Reported

 Measures of Subjective Well-Being. *Social Indicators Research*, 28(1), 1-20. doi: Doi
 10.1007/Bf01086714
- Pavot, W., Diener, E., Colvin, C. R., & Sandvik, E. (1991). Further validation of the satisfaction with life scale evidence for the cross-method of well-beig measures.

 **Journal of Personality Assessment, 57(1), 149-161. doi: 10.1207/s15327752jpa5701_17
- Pearce, M. J., Singer, J. L., & Prigerson, H. G. (2006). Religious coping among caregivers of terminally ill cancer patients Main effects and psychosocial mediators. *Journal of Health Psychology*, 11(5), 743-759. doi: 10.1177/1359105306066629
- Reynolds, C. R., & Livingston, R. B. (2012). *Mastering modern psychological testing : theory & methods* (1st ed.). Boston.
- Roescb, S. C., & Ano, G. (2003). Testing an Attribution and Coping Model of Stress:

 Religion as an Orienting System. *Journal of Psychology and Christianity*, .22(3), pp.
- Schafer, J. L., & Olsen, M. K. (1998). Multiple imputation for multivariate missing-data problems: A data analyst's perspective. 1998. *Multivariate Behavioral**Research, .33(4), pp. doi: 10.1207/s15327906mbr3304_5

- Schiaffino, K. M. (2003), Other measures of psychological well-being: The Affect Balance Scale (ABS), General Health Questionnaire (GHQ-12), Life Satisfaction Index-A (LSI-A), Rosenberg Self-Esteem Scale, Satisfaction with Life Scale (SWLS), and State-Trait Anxiety Index (STAI). *Arthritis & Rheumatism*, 49: S165–S174. doi: 10.1002/art.11408
- Shreve-Neiger, A. K., & Edelstein, B. A. (2004). Religion and anxiety: A critical review of the literature. *Clinical Psychology Review*, 24(4), 379-397. doi: 10.1016/j.cpr.2004.02.003
- Slattery, J. M., & Park, C. L. (2011). *Meaning making and spiritually oriented interventions*:

 American Psychological Association.
- Sokratous, S., Merkouris, A., Middleton, N., & Karanikola, M. (2013). The association between stressful life events and depressive symptoms among Cypriot university students: a cross-sectional descriptive correlational study. *Bmc Public Health*, *13*. doi: 10.1186/1471-2458-13-1121
- Steger, M. F., & Frazier, P. (2005). Meaning in life: One link in the chain from religiousness to well-being. *Journal of Counseling Psychology*, 52(4), 574-582. doi: 10.1037/0022-0167.52.4.574
- Steger, M. F., Pickering, N. K., Adams, E., Burnett, J., Shin, J. Y., Dik, B. J., & Stauner, N.
 (2010). The Quest for Meaning: Religious Affiliation Differences in the Correlates of Religious Quest and Search for Meaning in Life. *Psychology of Religion and Spirituality*, 2(4), 206-226. doi: 10.1037/a0019122
- Suh, E., Diener, E., & Fujita, F. (1996). Events and subjective well-being: Only recent events matter. *Journal of Personality and Social Psychology*, 70(5), 1091-1102. doi: 10.1037//0022-3514.71.5.842

- Tabachnick, B. G., & Fidell, L. S. (2013). *Using multivariate statistics* (6th international ed.).

 Boston.
- Tabak, N. T., & Weisman de Mamani, A. (2014). Religion's effect on mental health in schizophrenia: examining the roles of meaning-making and seeking social support.

 Clinical schizophrenia & related psychoses, 8(2), 91-100. doi:
 10.3371/csrp.tuwe.021513
- Tiliopoulos, N., Bikker, A. P., Coxon, A. P. M., & Hawkin, P. K. (2007). The means and ends of religiosity: A fresh look at Gordon Allport's religious orientation dimensions. *Personality and Individual Differences*, 42(8), 1609-1620. doi: 10.1016/j.paid.2006.10.034
- Tix, A. P., & Frazier, P. A. (1998). The use of religious coping during stressful life events:

 Main effects, moderation, and mediation. *Journal of Consulting and Clinical Psychology*, 66(2), 411-422. doi: 10.1037/0022-006x.66.2.411
- Traphagan, J. (2005). Multidimensional measurement of religiousness/spirituality for use in health research in cross-cultural perspective. *Research on Aging*, 27(4), 387-419. doi: 10.1177/0164027505275193
- Trevino, K. M., Pargament, K. I., Cotton, S., Leonard, A. C., Hahn, J., Caprini-Faigin, C. A., & Tsevat, J. (2010). Religious Coping and Physiological, Psychological, Social, and Spiritual Outcomes in Patients with HIV/AIDS: Cross-sectional and Longitudinal Findings. *Aids and Behavior*, 14(2), 379-389. doi: 10.1007/s10461-007-9332-6
- Weiss, D.S., & Marmar, C.R. (1997). The Impact of Event Scale-Revised. In J.P. Wilson & T.M. Keane (Eds.), *Assessing Psychological Trauma and PTSD* (pp.399-411). New York: Guilford. Retrieved from EBL Parton
- Werdel, M. B., & Wicks, R. J. (2012). *Primer on posttraumatic growth: An introduction and guide*. John Wiley & Sons.

Appendix A

Social Cultural Aspects of Meaning Making



Explanatory Statement (RO15280)

Project: The social and cultural aspects of meaning making following a stressful life event

Dear Sir/Madam,

You are invited to participate in the **Social and Cultural Aspects of Meaning Making Following a Stressful Life Event** project, which is being conducted by Ibolya Monai and Chi Ting Low (Postgraduate Diploma of Psychology candidates) under the supervision of Dr. Christina Samios from the Department of Psychology at Bond University.

This project aims to examine the social and cultural factors at play when we try to find meaning following a stressful life event. In order to do this, we need to obtain perspectives from many people who have experienced a stressful life event in the past 12 months.

As part of this study, we will invite you to complete a questionnaire about your experiences and your feelings. This will only take 30-40 minutes of your time. Although there are no immediate benefits from your participation, the data collected will be used to inform meaning focused interventions for people experiencing challenging life events.

Participation in this study is voluntary and you may withdraw at any time without penalty. In addition, you do not have to answer any questions that make you feel uncomfortable. Any publication(s) based on this project will not be written in such a way as to make you identifiable. Please be assured that you and your data will remain anonymous. Data will be stored in a secured location at Bond University for a period of five years in accordance with the guidelines set out by the Bond University Human Research Ethics Committee. After this period it will be securely destroyed.

Some questions may evoke strong feelings. If you experience any distressing emotions following the completion of the questionnaire, Lifeline (13 11 14) can provide services to assist you.

If you have any further questions about this project please contact the researchers by phone or email. If you wish to receive a summary of the study findings please do not hesitate to contact the research team.

Should you have any complaints concerning the manner in which this research is being conducted please contact the Bond University Human Research Ethics Committee.

c/o	Bond	University	Office of	Research	Services.	Bond 1	University,	Gold	Coast.	4229
\mathbf{v}	Duna		OHICE OIL	11Cocui cii	DCI VICCO	Duna		Julia	Coust	744/

Tel: +61 7 5595 4194 Fax: +61 7 5595 1120 Email: buhrec@bond.edu.au

We thank you for taking the time to assist us with this research.

Yours sincerely,
Dr. Christina Samios

Department of Psychology

Bond University

Phone: (07) 5595 2665

Email: csamios@bond.edu.au

Ibolya Monai

Department of Psychology

Bond University

ibolya.monai@student.bond.edu.au

Chi Ting Low

Department of Psychology

Bond University

chiting.low@student.bond.edu.au

Thank you!

-----Page Break----

Thank you for your interest in this study. We appreciate the time you take to complete this survey.

Completing the Questionnaire:

- Some questions will require you to type your answer, while others will simply require you to select an option.
- Please answer every question some questions may not seem relevant to you, but answer them as best you can.

What is a life stressor?

- A life stressor or stressful life event can be any situation that causes distress to a you.
- Life stressors can include events that are personal, professional, work or study related, intimate or social relationships and lifestyle.

Please select the one that applies to you regarding the most stressful life event for you in the past year.

*****1)

Was the life stressor:

Select	•
--------	---

- a personal event (the event actually happened to you) [Value=1]
- an external event (an event that you were not directly involved in) [Value=2]

Part A: This part of the questionnaire enquires about a stressful life event you experienced in the past 12 months

2)

Please describe the stressful event that you experienced in the past 12 months: (include how many months ago the event occurred)



(1000 characters remaining)

Please answer the following questions about that stressful event.

		Not at all	Low	Slightly	Neutral	Moderately	Very	Completely
3)	How stressful was this event at the time of occurrence?	•	•	•	•	•	•	•
4)	How stressful is this event to you currently?	•	•	•	•	•	•	•
5)	Did you experience personal growth as a result of this event?	•	•	•	•	•	•	•
6)	Did you have control over the event occurring?	•	•	•	•	•	•	•
7)	How resolved is the event?	•	•	•	•	•	•	•

Part B: Please answer the question below

Below is a list of difficulties people sometimes have after stressful life events. Please read each item, and then indicate how distressing each difficulty has been for you **DURING THE PAST SEVEN DAYS** with respect to (your problem), how much were you distressed or bothered by these difficulties? This assessment is not intended to be a diagnosis.

		Not at all	A little bit	Moderately	Quite a bit	Extremely
8)	Any reminder brought back feelings about it.	•	•	•	•	•
9)	I had trouble staying asleep.	•	•	•	•	•
10)	Other things kept making me think about it.	•	•	•	•	•
11)	I felt irritable and angry.	•	•	•	•	•
12)	I avoided letting myself get upset when I thought about it or was reminded of it.	•	•	•	•	•
13)	I thought about it when I didn't mean to.	•	•	•	•	•
14)	I felt as if it hadn't happened or wasn't real.	•	•	•	•	•
15)	I stayed away from reminders about it.	•	•	•	•	•
16)	Pictures about it popped into my mind.	•	•	•	•	•
17)	I was jumpy and easily startled.	•	•	•	•	•
18)	I tried not to think about it.	•	•	•	•	•
19)	I was aware that I still had a lot of feelings about it, but I didn't deal with them.	•	•	•	•	•
20)	My feelings about it were kind of numb.	•	•	•	•	•
21)	I found myself acting or feeling as though I was back at that time.	•	•	•	•	•
22)	I had trouble falling asleep.	•	•	•	•	•
23)	I had waves of strong feelings about it.	•	•	•	•	•
24)	I tried to remove it from my memory.	•	•	•	•	•
25)	I had trouble concentrating.	•	•	•	•	•
26)	Reminders of it caused me to have physical reactions, such as sweating, trouble breathing, nausea, or a pounding heart.	•	•	•	•	•
27)	I had dreams about it.	•	•	•	•	•
28)	I felt watchful or on-guard.	•	•	•	•	•
29)	I tried not to talk about it.	•	•	•	•	•

Please respond to the following items with regard to that stressful life event.

		Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
30)	Since this event, the world seems like a confusing and scary place.	•	•	•	•	•
31)	I have made sense of this event.	•	•	•	•	•
32)	If or when I talk about this event, I believe people see me differently.	•	•	•	•	•
33)	I have difficulty integrating this event into my understanding about the world.	•	•	•	•	•
34)	Since this event, I feel like I'm in a crisis of faith.	•	•	•	•	•
35)	This event is incomprehensible to me.	•	•	•	•	•
36)	My previous goals and hopes for the future don't make sense anymore since this event.	•	•	•	•	•
37)	I am perplexed by what happened.	•	•	•	•	•
38)	Since this event happened, I don't know where to go next in my life.	•	•	•	•	•
39)	I would have an easier time talking about my life if I left this event out.	•	•	•	•	•
40)	My beliefs and values are less clear since this event.	•	•	•	•	•
41)	I don't understand myself anymore since this event.	•	•	•	•	•
42)	Since this event, I have a harder time feeling like I'm part of something larger than myself.	•	•	•	•	•
43)	This event has made me feel less purposeful.	•	•	•	•	•
44)	I haven't been able to put the pieces of my life back together since this event.	•	•	•	•	•
45)	After this event, life seems more random.	•	•	•	•	•

The following questions ask about the styles of coping you use in dealing with that stressful life event. Please rate each coping statement as it applies to you.

		I don't do this at all	I do this rarely	I do this sometimes	I do this a lot
46)	I concentrate my efforts on doing something about the situation I'm in	•	•	•	•
47)	I take action to try to make the situation better	•	•	•	•
48)	I try to come up with a strategy about what to do	•	•	•	•
49)	I think hard about what steps to take	•	•	•	•
50)	I try to see it in a different light, to make it seem more positive	•	•	•	•
51)	I look for something good in what is happening	•	•	•	•
52)	I accept the reality of the fact that it has happened	•	•	•	•

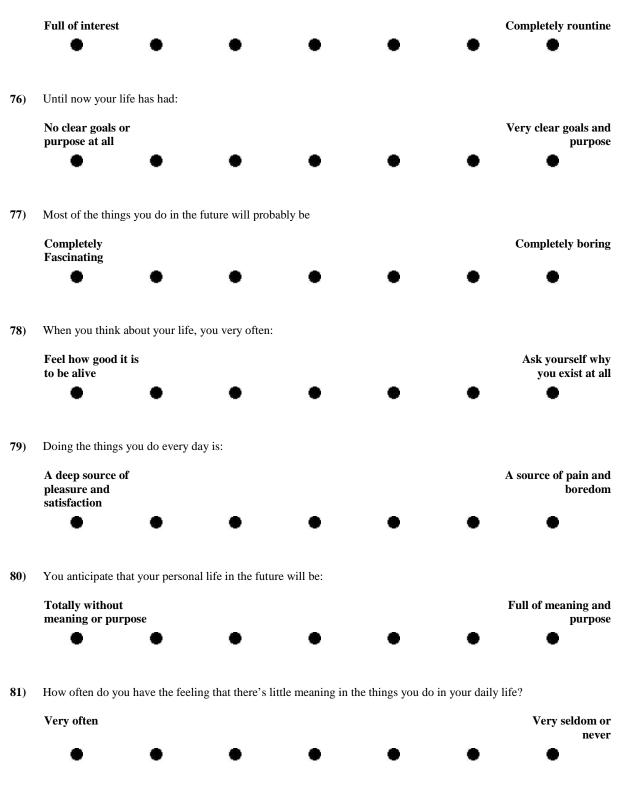
53)	I learn to live with it	•	•	•	•
54)	I make jokes about it	•	•	•	•
55)	I make fun of the situation	•	•	•	•
56)	I try to find comfort in my religion or spiritual beliefs	•	•	•	•
57)	I pray or meditate	•	•	•	•
58)	I get emotional support from others	•	•	•	•
59)	I get comfort and understanding from someone	•	•	•	•
60)	I try to get advice or help from other people about what to do	•	•	•	•
61)	I get help and advice from other people	•	•	•	•
62)	I turn to work or other activities to take my mind off things	•	•	•	•
63)	I do something to think about it less, such as going to the movies, watching TV, reading, daydreaming, sleeping or shopping.	•	•	•	•
64)	I say to myself "this isn't real"	•	•	•	•
65)	I refuse to believe that it has happened	•	•	•	•
66)	I say things to let my unpleasant feelings escape	•	•	•	•
67)	I express my negative feelings	•	•	•	•
68)	I use alcohol or other drugs to make myself feel better	•	•	•	•
69)	I use alcohol or other drugs to help me get though it	•	•	•	•
70)	I give up trying to deal with it	•	•	•	•
71)	I give up the attempt to cope	•	•	•	•
72)	I criticise myself	•	•	•	•
73)	I blame myself for things that happened	•	•	•	•

Here is a series of questions relating to various aspects of our lives. Each question has seven possible answers. Please mark the number which best expresses your feeling. Please give only one answer to each question.

74) Do you have the feeling that you don't really care about what goes on around you?



75) Life is



Below are five statements with which you may agree or disagree. Select the option which best reflects how you feel now:

Strongly Disagree Slightly Neither Slightly Agree Strong Disagree Disagree Agree Agree Agree nor Disagree	~ •
---	-----

82)	In most ways my life is close to ideal.	•	•	•	•	•	•	•
83)	The conditions of my life are excellent.	•	•	•	•	•	•	•
84)	I am satisfied with my life.	•	•	•	•	•	•	•
85)	So far I have gotten the important things I want in my life.	•	•	•	•	•	•	•
86)	If I could live my life over, I would change almost nothing.	•	•	•	•	•	•	•

Please indicate whether you have felt the following in the <u>past few weeks including</u> <u>today</u>.

		Yes	No
87)	Particularly excited or interested in something	•	•
88)	Proud because someone had complimented you on something you had done	•	•
89)	Pleased about having accomplished something	•	•
90)	On top of the world	•	•
91)	That things were going your way	•	

Please read each statement and select an option how much you feel the statement applied to you <u>over the past week</u>. There are no right or wrong answers. Do not spend too much time on any statement.

		Did not apply to me at all	Applied to me to some degree, or some of the time	Applied to me a considerable degree, or a good part of the time	Applied to me very much, or most of the time
92)	I found it hard to wind down.	•	•	•	•
93)	I was aware of dryness of my mouth.	•	•	•	•
94)	I couldn't seem to experience any positive feeling at all.	•	•	•	•
95)	I experienced breathing difficulty (e.g. excessively rapid breathing, breathlessness) in the absence of physical exertion.	•	•	•	•
96)	I found it difficult to work up the initiative to do things.	•	•	•	•
97)	I tended to over-react to situations.	•	•	•	•
98)	I experienced trembling (e.g. in the hands).	•	•	•	•
99)	I felt that I was using a lot of nervous energy,	•	•	•	•

100)	I was worried about situations in which I might panic and make a fool of myself.	•	•	•	•
101)	I felt that I had nothing to look forward to.	•	•	•	•
102)	I found myself getting agitated.	•	•	•	•
103)	I found it difficult to relax.	•	•	•	•
104)	I felt down-hearted and blue.	•	•	•	•
105)	I was intolerant of anything that kept me from getting on with what I was doing.	•	•	•	•
106)	I felt I was close to panic.	•	•	•	•
107)	I was unable to become enthusiastic about anything.	•	•	•	•
108)	I felt I wasn't worth much as a person.	•	•	•	•
109)	I felt that I was rather touchy.	•	•	•	•
110)	I was aware of the action of my heart in the absence of physical exertion (e.g. sense of heart rate increase, heart missing a beat).	•	•	•	•
111)	I felt scared without any good reason.	•	•	•	•
112)	I felt that life was meaningless.	•	•	•	•

Below are the statements with which you may agree or disagree. Choose an option which best reflects how you feel about each statement:

		I strongly disagree	I tend to disagree	I'm not sure	I tend to agree	I strongly agree
113)	I enjoy reading about my religion.	•	•	•	•	•
114)	I go to church because it helps me to make friends.	•	•	•	•	•
115)	It doesn't much matter what I believe so long as I am good.	•	•	•	•	•
116)	It is important to me to spend time in private thought and prayer.	•	•	•	•	•
117)	I have often had a strong sense of God's presence.	•	•	•	•	•
118)	I pray mainly to gain relief and protection.	•	•	•	•	•
119)	I try hard to live all my life according to my religious beliefs.	•	•	•	•	•
120)	What religion offers me most is comfort in times of trouble and sorrow.	•	•	•	•	•
121)	Prayer is for peace and happiness.	•	•	•	•	•
122)	Although I am religious, I don't let it affect my daily life.	•	•	•	•	•
123)	I go to church mostly to spend time with my friends.	•	•	•	•	•
124)	My whole approach to life is based on my religion.	•	•	•	•	•

125)	I go to church mainly because I enjoy seeing people I know there.	•	•	•	•	•	
126)	Although I believe in my religion, many other things are more important in life.	•	•	•	•	•	

Choose the answer that best describes how often you do the following things when you have a stressful problem.

		Not at all	Somewhat	Quite a bit	A great deal
127)	Looked for a stronger connection with God.	•	•	•	•
128)	Sought God's love and care.	•	•	•	•
129)	Sought help from God in letting go of my anger.	•	•	•	•
130)	Tried to put my plans into action to strengthen me in this situation.	•	•	•	•
131)	Tried to see how God might be trying to strengthen me in this situation.	•	•	•	•
132)	Asked forgiveness for my sins.	•	•	•	•
133)	Focused on religion to stop worrying about my problem.	•	•	•	•
134)	Wondered whether God had abandoned me.	•	•	•	•
135)	Felt punished by God for my lack of devotion.	•	•	•	•
136)	Wondered what I did for God to punish me.	•	•	•	•
137)	Questioned God's love for me.	•	•	•	•
138)	Wondered whether my church had abandoned me.	•	•	•	•
139)	Decided the devil made this happen.	•	•	•	•
140)	Questioned the power of God.	•	•	•	•

Part C: Please answer the following question.

141) What is your age?

142) What is your sex?

Male
Female

Other

143)

If you select 'other', please specify

Single (never married) Single living with significant other n a relationship Married Separated Widowed Divorced Other Not applicable 'other', please specify
n a relationship Married Separated Widowed Divorced Other Not applicable
Married Separated Widowed Divorced Other Not applicable
Separated Widowed Divorced Other Not applicable
Widowed Divorced Other Not applicable
Divorced Other Not applicable
Other Not applicable
Not applicable
'other', please specify
is the highest level of education you have completed?
Primary
Secondary year 10
Secondary year 12
Some college, no degree
Jndergraduate degree/ Associate's degree
Jndergraduate degree/ Associate's degree Postgraduate degree/ Ph.D.
Postgraduate degree/ Ph.D.
Postgraduate degree/ Ph.D. Graduated or professional degree

149) What is your current employment situation?

- Employer/ Self-employed
- Employed full time
- Employed part-time/casual
- Student: Part-time
- Student: Full-time
- Carer payment
- •
- Unemployed
- Retired
- Other
- Not applicable

150)

If you select 'other', please specify

151) What is your household income?

- Less than 20, 000
- 20,001 40,000
- 40,001 60,000
- 60,001 80,000
- 80,001 100,000
- 100,001 120,000
- 120,001 140,000
- 140,001 160,000
- 160,001 180,000
- 180,001 200,000
- 200,001 220,000
- More than 220,001
- Not applicable

152) Do you consider yourself to be religious or have spiritual interests?

- Yes
- •
- No

153) What	t is yo	our nationality?
154)	Wha	African Mid to Southern African Northern and Middle Eastern (e.g., Egyptian, Iranian) Asian Asian (e.g., Indian) Asian Northern (e.g., Chinese, Mongolian) Asian South East (e.g., Malaysian, Vietnam) Australian Aboriginal Caucasian Caucasian Eastern European Caucasian North to Northwest European (e.g., English, Scottish, Dutch, Scandanavian) Caucasian Southern European (e.g., Spanish, Greek) Mixed Torres Strait Islander Pacific Islander (e.g., Fijian, Samoan) Other Not applicable
155) If you	ı sele	ct 'other', please specify
156)	In ge	eneral, how would you rate your health during the past week?
	• • • • •	Extremely Poor Poor Fair Good Excellent

Social Cultural Aspects of Meaning Making

Thank you!

For maximum confidentiality, please close this window.



Australia Ph: +61 7 5595 4194 Fax: +61 7 5595 1528 (from overseas)

ABN 88 010 694 121 CRICOS CODE 000178

ETHICS COMMITTEE

Bond University
Gold Coast, Queensland 4229

Email: ethics@bond.edu.au

11 August 2015

Christina Samios, Chi Ting Low and Ibolya Monai Faculty of Society and Design Bond University

Dear Christina

Application ID:

15280

Project Title:

The Social and Cultural Context of Searching for and Finding

Meaning following a Life Stressor

I am pleased to confirm that your project was reviewed by Bond University Human Research Ethics Committee and you have been granted approval to proceed.

The Committee requires, as a condition of approval, that all investigations be carried out in accordance with the National Health and Medical Research Council's (NHMRC) *National Statement on Ethical Conduct in Human Research* (2007). Approval is subject to conduct of the research in accordance with the requirements set out in the National Statement.

Approval is given subject to the protocol of the study being undertaken as described in your application, and approved amendments. As you may be aware the Ethics Committee is required to annually report on the progress of research it has approved. We would greatly appreciate if you could respond promptly and fully to the request for information on this project which will be distributed in March/April each year.

Under the terms of the National statement BUHREC has a role to monitor approved research projects and if necessary may withdraw approval. Conduct of unapproved research or deviation from the approved protocol may constitute academic misconduct and will be investigated in accordance with Section B of the *Australian Code for the Responsible Conduct of Research* (2007). Please refer to the Research Ethics website for more detail on Research Integrity and Bond University processes for dealing with instances of research misconduct.

You are reminded that the Principal Investigator must immediately report anything that might warrant review of ethical approval of the project. Should you have any queries or experience any problems, please contact us promptly.

We wish you well with your research project.

Yours sincerely

Dr Mark Bahr

Chair Bond University Human Research Ethics Committee

www.bond.edu.au

Appendix B

Descriptive Statistic

What is your sex?

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Male	19	22.6	22.6	22.6
	Female	64	76.2	76.2	98.8
	Other	1	1.2	1.2	100.0
	Total	84	100.0	100.0	

What is your relationship status?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Single (never married)	34	40.5	40.5	40.5
	Married	23	27.4	27.4	67.9
	Separated	4	4.8	4.8	72.6
	Widowed	1	1.2	1.2	73.8
	Divorced	7	8.3	8.3	82.1
	In a relationship	15	17.9	17.9	100.0
	Total	84	100.0	100.0	

What is the highest level of education you have completed?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Secondary year 10	1	1.2	1.2	1.2
	Secondary year 12	10	11.9	11.9	13.1
	Undergraduate degree/ Associate's degree	31	36.9	36.9	50.0
	Postgraduate degree/ Ph.D.	9	10.7	10.7	60.7
	Trade school/ TAFE	3	3.6	3.6	64.3
	Other	5	6.0	6.0	70.2
	Some college, no degree	22	26.2	26.2	96.4
	Graduated or professional	3	3.6	3.6	100.0
	degree				
	Total	84	100.0	100.0	

What is your current employment situation?

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Employer/ Self-employed	9	10.7	10.7	10.7
	Employed full time	7	8.3	8.3	19.0
	Employed part-time/casual	10	11.9	11.9	31.0
	Carer payment	2	2.4	2.4	33.3
	Unemployed	4	4.8	4.8	38.1
	Retired	6	7.1	7.1	45.2
	Other	1	1.2	1.2	46.4
	Not applicable	1	1.2	1.2	47.6
	Student: Part-time	8	9.5	9.5	57.1
	Student: Full-time	36	42.9	42.9	100.0
	Total	84	100.0	100.0	

What is your household income?

		Fraguency	Percent	Valid Percent	Cumulative Percent
		Frequency			
Valid	Less than 20, 000	17	20.2	20.2	20.2
	20,001 - 40,000	13	15.5	15.5	35.7
	40,001 - 60,000	6	7.1	7.1	42.9
	60,001 - 80,000	2	2.4	2.4	45.2
	80,001 - 100,000	6	7.1	7.1	52.4
	100,001 - 120,000	3	3.6	3.6	56.0
	120,001 - 140,000	5	6.0	6.0	61.9
	140,001 - 160,000	4	4.8	4.8	66.7
	160,001 - 180,000	2	2.4	2.4	69.0
	180,001 - 200,000	3	3.6	3.6	72.6
	200,001 - 220,000	2	2.4	2.4	75.0
	More than 220,001	5	6.0	6.0	81.0
	Not applicable	16	19.0	19.0	100.0
	Total	84	100.0	100.0	

Do you consider yourself to be religious or have spiritual interests?

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Yes	47	56.0	56.0	56.0
	No	37	44.0	44.0	100.0
	Total	84	100.0	100.0	

What is your nationality?

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	american	1	1.2	1.2	1.2
	American	11	13.1	13.1	14.3
	Aus	1	1.2	1.2	15.5
	aussie	1	1.2	1.2	16.7
	Australia	1	1.2	1.2	17.9
	australian	3	3.6	3.6	21.4
	Australian	45	53.6	53.6	75.0
	Australian/British	1	1.2	1.2	76.2
	australisn	1	1.2	1.2	77.4
	English	2	2.4	2.4	79.8
	German	2	2.4	2.4	82.1
	Malaysia	1	1.2	1.2	83.3
	malaysian	2	2.4	2.4	85.7
	Malaysian	1	1.2	1.2	86.9
	Romanien	1	1.2	1.2	88.1
	Russian	2	2.4	2.4	90.5
	Singaporean	1	1.2	1.2	91.7
	South African	2	2.4	2.4	94.0
	United States	1	1.2	1.2	95.2
	United States of American	1	1.2	1.2	96.4
	usa	1	1.2	1.2	97.6
	USA	2	2.4	2.4	100.0
	Total	84	100.0	100.0	

ETHNICITY1 - What is your ethnicity (ethnic background, heritage, family descent - select all applicable)?: African Mid to Southern

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	3	3.6	4.1	4.1
	Asian eg Indian	4	4.8	5.5	9.6
	Asian Northern eg Chinese,	1	1.2	1.4	11.0
	Mongolian				
	Asian South East eg	2	2.4	2.7	13.7
	Malaysian, Vietnam				

	_				
	Caucasian	29	34.5	39.7	53.4
	Caucasian Eastern	3	3.6	4.1	57.5
	European				
	Caucasian North to North	14	16.7	19.2	76.7
	West European eg English				
	Caucasian Southern	5	6.0	6.8	83.6
	European eg Spanish, Greek				
	Mixed	10	11.9	13.7	97.3
	Not applicable	1	1.2	1.4	98.6
	16	1	1.2	1.4	100.0
	Total	73	86.9	100.0	
Missing	System	11	13.1		
Total		84	100.0		

Correlation

orr		

		RELI_I	IER	INTRI	POSITIV	NEGATI	ISLE	DEPRE	ANXIET	SW		so
		NT	S	N	Е	VE	S	S	Υ	L	PAC	С
RELI_IN	Pearson	1	.032	.609**	.503**	.234*	.013	004	100	-	.066	-
Т	Correlati									.035		.033
	on											
	Sig. (2-		.774	.000	.000	.032	.906	.971	.367	.752	.550	.766
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
IERS	Pearson	.032	1	.091	.087	.254*	-	.499**	.492**	-	-	-
	Correlati						.551 [*]			.373	.305	.333
	on						*			**	**	**
	Sig. (2-	.774		.413	.429	.020	.000	.000	.000	.000	.005	.002
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
INTRIN	Pearson	.609**	.091	1	.793**	.162	072	035	073	-	.026	-
	Correlati									.015		.139
	on											
	Sig. (2-	.000	.413		.000	.141	.517	.750	.511	.894	.817	.209
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
POSITIV	Pearson	.503**	.087	.793**	1	.356**	024	067	049	.072	.044	-
Е	Correlati											.043
	on											
	Sig. (2-	.000	.429	.000		.001	.831	.544	.658	.513	.691	.695
	tailed)											

	N	84	84	84	84	84	84	84	84	84	84	84
NEGATI	Pearson	.234*	.254	.162	.356**	1	201	.227*	.256 [*]	-	-	-
VE	Correlati		*							.234	.067	.226
	on									*		*
	Sig. (2-	.032	.020	.141	.001		.067	.038	.019	.032	.547	.039
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
ISLES	Pearson	.013	-	072	024	201	1	585 ^{**}	417 ^{**}	.424	.441	.549
	Correlati		.551							**	**	**
	on		**									
	Sig. (2-	.906	.000	.517	.831	.067		.000	.000	.000	.000	.000
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
DEPRES	Pearson	004		035	067	.227*	-	1	.638**	-	-	-
	Correlati		**				.585 [*]			.441	.564	.670
	on						*			**	**	**
	Sig. (2-	.971	.000	.750	.544	.038	.000		.000	.000	.000	.000
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
ANXIETY	Pearson	100		073	049	.256 [*]	-	.638**	1	-	-	-
	Correlati		**				.417 [*]			.131	.193	.366
	on						*					**
	Sig. (2-	.367	.000	.511	.658	.019	.000	.000		.235	.079	.001
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
SWL	Pearson	035	-	015	.072	234 [*]	.424*	441 ^{**}	131	1	.615	.540
	Correlati		.373				*				**	**
	on		**									
	Sig. (2-	.752	.000	.894	.513	.032	.000	.000	.235		.000	.000
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
PAC	Pearson	.066	-	.026	.044	067	.441 [*]	564 ^{**}	193		1	.664
	Correlati		.305				*			**		**
	on		**									
	Sig. (2-	.550	.005	.817	.691	.547	.000	.000	.079	.000		.000
	tailed)											
	N	84	84	84	84	84	84	84	84	84	84	84
SOC	Pearson	033	-	139	043	226 [*]	.549 [*]	670 ^{**}	366**	.540	.664	1
	Correlati		.333				*			**	**	
	on		**									
	Sig. (2-	.766	.002	.209	.695	.039	.000	.000	.001	.000	.000	
	tailed)											

N _____ 84 84 84 84 84 84 84 84 84 84 84 84 84

Outliner and assumption checking

Descriptive Statistics

	Mean	Std. Deviation	N
TOTAL_INTRINSIC	14.1548	6.52796	84
TOTAL_NIES.R	2.8113	2.32212	84
TOTAL_POSITVE_RCOPE	13.0995	6.15911	84
TOTAL_NEGATIVE_RCOPE	8.7619	3.32069	84
TOTAL_ISLES	58.9990	14.84117	84
TOTAL_DEPRESSION	3.9524	4.51745	84
TOTAL_ANXIETY	2.8342	3.41752	84
TOTAL_SWL	23.0033	7.69496	84
TOTAL_PAS	3.8571	1.35454	84
TOTAL_SOC	41.6310	9.25773	84

_				
1.0	rre	loti	\sim	30

							_	-	_		
		TOTAL	TOTA	TOTAL_P	TOTAL_NE	тот	TOTAL_	TOTA	тот	тот	тот
		_INTRI	L_NIE	OSITVE_R	GATIVE_R	AL_I	DEPRES	L_ANX	AL_	AL_	AL_
		NSIC	S.R	COPE	COPE	SLES	SION	IETY	SWL	PAS	SOC
Pea rso	TOTAL_IN TRINSIC	1.000	.091	.793	.162	072	035	073	.015	.026	- .139
n Cor	TOTAL_NI ES.R	.091	1.000	.087	.254	551	.499	.492	.373	.305	.333
rela tion	TOTAL_PO SITVE_RC OPE	.793	.087	1.000	.356	024	067	049	.072	.044	.043
	TOTAL_NE GATIVE_R COPE	.162	.254	.356	1.000	201	.227	.256	.234	.067	.226
	TOTAL_ISL ES	072	551	024	201	1.000	585	417	.424	.441	.549
	TOTAL_DE PRESSION	035	.499	067	.227	585	1.000	.638	- .441	- .564	- .670
	TOTAL_AN XIETY	073	.492	049	.256	417	.638	1.000	- .131	- .193	.366
	TOTAL_S WL	015	373	.072	234	.424	441	131	1.00 0	.615	.540

^{**.} Correlation is significant at the 0.01 level (2-tailed).

^{*.} Correlation is significant at the 0.05 level (2-tailed).

				ı	ı		•				
	TOTAL_PA S	.026	305	.044	067	.441	564	193	.615	1.00 0	.664
	TOTAL_SO	139	333	043	226	.549	670	366	.540	.664	1.00
Sig. (1-	TOTAL_IN TRINSIC		.206	.000	.071	.258	.375	.255	.447	.408	.104
taile d)	TOTAL_NI ES.R	.206		.214	.010	.000	.000	.000	.000	.002	.001
	TOTAL_PO SITVE_RC OPE	.000	.214		.000	.415	.272	.329	.256	.345	.348
	TOTAL_NE GATIVE_R COPE	.071	.010	.000		.033	.019	.009	.016	.274	.019
	TOTAL_ISL ES	.258	.000	.415	.033		.000	.000	.000	.000	.000
	TOTAL_DE PRESSION	.375	.000	.272	.019	.000		.000	.000	.000	.000
	TOTAL_AN XIETY	.255	.000	.329	.009	.000	.000		.118	.040	.000
	TOTAL_S WL	.447	.000	.256	.016	.000	.000	.118		.000	.000
	TOTAL_PA S	.408	.002	.345	.274	.000	.000	.040	.000		.000
	TOTAL_SO C	.104	.001	.348	.019	.000	.000	.000	.000	.000	
N	TOTAL_IN TRINSIC	84	84	84	84	84	84	84	84	84	84
	TOTAL_NI ES.R	84	84	84	84	84	84	84	84	84	84
	TOTAL_PO SITVE_RC OPE	84	84	84	84	84	84	84	84	84	84
	TOTAL_NE GATIVE_R COPE	84	84	84	84	84	84	84	84	84	84
	TOTAL_ISL ES	84	84	84	84	84	84	84	84	84	84
	TOTAL_DE PRESSION	84	84	84	84	84	84	84	84	84	84

TOTAL_AN XIETY	84	84	84	84	84	84	84	84	84	84
TOTAL_S WL	84	84	84	84	84	84	84	84	84	84
TOTAL_PA S	84	84	84	84	84	84	84	84	84	84
TOTAL_SO C	84	84	84	84	84	84	84	84	84	84

Variables Entered/Removed^a

		Variables	
Model	Variables Entered	Removed	Method
1	TOTAL_SOC,		
	TOTAL_POSITVE		
	_RCOPE,		
	TOTAL_NIES.R,		
	TOTAL_NEGATIV		
	E_RCOPE,		Enter
	TOTAL_ANXIETY,		Enter
	TOTAL_SWL,		
	TOTAL_ISLES,		
	TOTAL_PAS,		
	TOTAL_DEPRESS		
	ION ^b		

- a. Dependent Variable: TOTAL_INTRINSIC
- b. All requested variables entered.

Model Summary^b

		inicaci c		
				Std. Error of the
Model	R	R Square	Adjusted R Square	Estimate
1	.829 ^a	.686	.648	3.87122

a. Predictors: (Constant), TOTAL_SOC, TOTAL_POSITVE_RCOPE,

TOTAL_NIES.R, TOTAL_NEGATIVE_RCOPE, TOTAL_ANXIETY, TOTAL_SWL,

TOTAL_ISLES, TOTAL_PAS, TOTAL_DEPRESSION

b. Dependent Variable: TOTAL_INTRINSIC

$\mathbf{ANOVA}^{\mathbf{a}}$

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2428.000	9	269.778	18.002	.000 ^b
	Residual	1108.988	74	14.986		

T-4-1	0500 000	00		
lotal	3536.988	831		

a. Dependent Variable: TOTAL_INTRINSIC

b. Predictors: (Constant), TOTAL_SOC, TOTAL_POSITVE_RCOPE, TOTAL_NIES.R,

TOTAL_NEGATIVE_RCOPE, TOTAL_ANXIETY, TOTAL_SWL, TOTAL_ISLES, TOTAL_PAS,

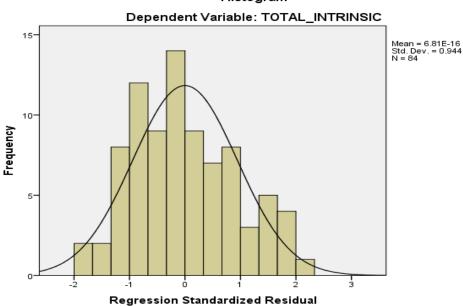
TOTAL_DEPRESSION

Residuals Statistics^a

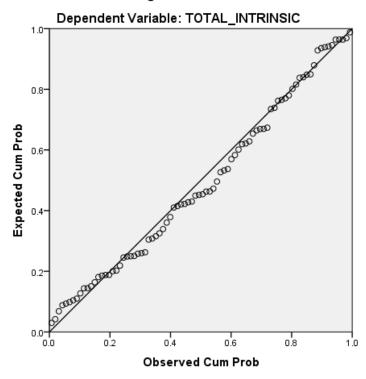
	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	6.3576	29.0403	14.1548	5.40861	84
Std. Predicted Value	-1.442	2.752	.000	1.000	84
Standard Error of Predicted Value	.735	2.321	1.278	.390	84
Adjusted Predicted Value	5.8217	29.0519	14.1328	5.41763	84
Residual	-7.29180	8.72757	.00000	3.65531	84
Std. Residual	-1.884	2.254	.000	.944	84
Stud. Residual	-1.969	2.325	.002	1.006	84
Deleted Residual	-8.33493	10.33153	.02193	4.16956	84
Stud. Deleted Residual	-2.010	2.399	.005	1.016	84
Mahal. Distance	2.006	28.859	8.893	6.280	84
Cook's Distance	.000	.216	.015	.033	84
Centered Leverage Value	.024	.348	.107	.076	84

a. Dependent Variable: TOTAL_INTRINSIC

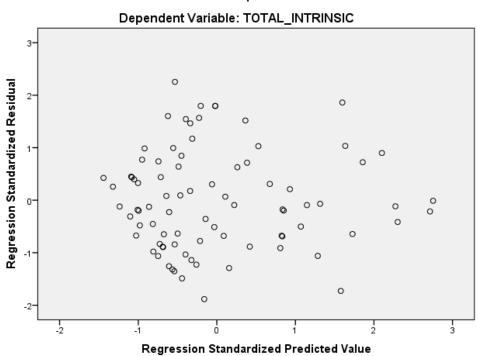
Histogram



Normal P-P Plot of Regression Standardized Residual



Scatterplot



Process output (Depression)

Run MATRIX procedure: ******* PROCESS Procedure for SPSS Release 2.13.2 ********* Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2013). www.guilford.com/p/hayes3 ****************** Model = 4Y = DEPRESX = INTRINM1 = POSITIVE M2 = NEGATIVE Statistical Controls: CONTROL= RELI INT Sample size ******************* Outcome: POSITIVE Model Summary R F df1 df2 R-sq MSE .6302 14.3732 69.0297 2.0000 .7939 81.0000 .0000 Model
 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 2.7326
 1.1756
 2.3244
 .0226
 .3935
 5.0716

 INTRIN
 .7308
 .0804
 9.0950
 .0000
 .5709
 .8907

 RELI_INT
 .1918
 .5251
 .3653
 .7158
 -.8530
 1.2367
 constant INTRIN RELI_INT constant 1.3820 -.0883 3307 Covariance matrix of regression parameter estimates -.0883 .0065 .3307 -.0257 -.0883 -.0257 INTRIN RELI_INT .2758 ****************** Outcome: NEGATIVE Model Summary R R-sq MSE F df1 df2.2351 .0553 10.6745 2.3702 2.0000 81.0000 .0999 Model
 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 8.4545
 1.0131
 8.3452
 .0000
 6.4388
 10.4703

 INTRIN
 .0157
 .0692
 .2268
 .8212
 -.1221
 .1535

 RELI_INT
 .7150
 .4525
 1.5799
 .1180
 -.1854
 1.6154
 Covariance matrix of regression parameter estimates
 constant
 INTRIN
 RELI_INT

 constant
 1.0264
 -.0656
 .2456

 INTRIN
 -.0656
 .0048
 -.0191

 RELI_INT
 .2456
 -.0191
 .2048

Model Summary	**************************************		* * * * * * * * * *	* * * * * * * * *	*******	* * * * * * * * * * * *	*****
P .2910	Model Summar	У					
Model			MSE	F	df1	df2	
Model Cooff Se	р						
COEFF SE			78.4990	1.8275	4.0000		
COEFF SE							
Constant 2.9097 3.7566 .7746	Model	c c				T T G T	
POSITIVE							
NEGATIVE 8483 3.355 2.6064 0.109 .2005 1.4960							
NTRIN							
Reli_Int							
Covariance matrix of regression parameter estimates Constant 14.1120 0.0767 8012 5259 2.3645 POSITIVE 0.0767 8012 5259 2.3645 POSITIVE 0.0767 0.0787 0345 -0.0569 0.0096 NEGATIVE 8012 0345 1.059 0.0235 -0.691 INTRIN 5259 0569 0.0235 0.0765 1462 RELI_INT 2.3645 0.0096 0691 1462 1.5536 RELI_INT R R R R R R R R R R R R R R R R R R							
CONSTANT POSITIVE NEGATIVE INTRIN RELI_INT CONSTANT 14.1120 .0767 8012 5259 2.3645 POSITIVE .0767 .0787 0345 0569 .0096 NEGATIVE 8012 0345 .1059 .0235 0691 INTRIN 5259 0569 .0096 0691 1462 I.5536 .1059 .0235 0691 .1462 I.5536 .1059 .0235 0691 .1462 I.5536 .1059 .1462 .1059 .1462 .1059 .1462 .1059 .1059 .1462 .1059 .1462 .1059	RELI_INT	2730	1.2464	2190	.8272	-2.7540	2.2080
Constant 14.1120	Covariance m	atrix of re	gression pa	rameter es	stimates		
POSITIVE	С	onstant P	OSITIVE N	EGATIVE	INTRIN	RELI_INT	
NEGATIVE	constant	14.1120	.0767	8012	5259	2.3645	
INTRIN	POSITIVE	.0767	.0787	0345	0569	.0096	
INTRIN	NEGATIVE	8012	0345	.1059	.0235	0691	
RELI_INT 2.3645 .009606911462 1.5536 **********************************	INTRIN		0569	.0235			

Model Summary R R-sq MSE F dfl df2 P .0416 .0017 83.5004 .0701 2.0000 81.0000 .9324 Model Coeff Se t D LLCI ULCI Constant 8.8963 2.8335 3.1397 .0024 3.2586 14.5341 INTRIN0722 .19373726 .71044575 .3132 RELI_INT .2503 1.2657 .1977 .8438 -2.2681 2.7686 Covariance matrix of regression parameter estimates Constant 8.02865131 1.9214	_						
Model Summary R R-sq MSE F df1 df2 P	******	*****	*** TOTAL E	FFECT MODE	L *******	*****	*****
P	Outcome: DEP	RES					
P .0416 .0017 83.5004 .0701 2.0000 81.0000 .9324 Model Coeff se t p LLCI ULCI Constant 8.8963 2.8335 3.1397 .0024 3.2586 14.5341 INTRIN0722 .19373726 .71044575 .3132 RELI_INT .2503 1.2657 .1977 .8438 -2.2681 2.7686 Covariance matrix of regression parameter estimates	Model Summar	У					
.0416 .0017 83.5004 .0701 2.0000 81.0000 .9324 Model	R	R-sq	MSE	F	df1	df2	
Model Coeff Se	р						
Model Coeff Se	.0416	.0017	83.5004	.0701	2.0000		
coeff se t p LLCI ULCI constant 8.8963 2.8335 3.1397 .0024 3.2586 14.5341 INTRIN 0722 .1937 3726 .7104 4575 .3132 RELI_INT .2503 1.2657 .1977 .8438 -2.2681 2.7686 Covariance matrix of regression parameter estimates constant INTRIN RELI_INT .2503 1.2657 .19214 INTRIN 5131 1.9214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .1921	81.0000	.9324					
coeff se t p LLCI ULCI constant 8.8963 2.8335 3.1397 .0024 3.2586 14.5341 INTRIN 0722 .1937 3726 .7104 4575 .3132 RELI_INT .2503 1.2657 .1977 .8438 -2.2681 2.7686 Covariance matrix of regression parameter estimates constant INTRIN RELI_INT .2503 1.2657 .19214 INTRIN 5131 1.9214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .19214 .1921	Model						
<pre>constant 8.8963 2.8335 3.1397 .0024 3.2586 14.5341 INTRIN</pre>		coeff	se	t	σ	LLCI	ULCI
INTRIN	constant				_		
RELI_INT							
Covariance matrix of regression parameter estimates constant							
constant INTRIN RELI_INT constant 8.0286 5131 1.9214 INTRIN 5131 .0375 1492 RELI_INT 1.9214 1492 1.6020 ***********************************							
<pre>constant 8.0286</pre>					stimates		
<pre>INTRIN</pre>				_			
<pre>RELI_INT 1.9214</pre>							

Total effect of X on Y Effect SE t p LLCI ULCI0722 .19373726 .71044575 .3132 Direct effect of X on Y Effect SE t p LLCI ULCI .2314 .2766 .8368 .40523191 .7820 Indirect effect of X on Y Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626	RELI_INT	1.9214	1492	1.6020			
Effect SE t p LLCI ULCI0722 .19373726 .71044575 .3132 Direct effect of X on Y Effect SE t p LLCI ULCI .2314 .2766 .8368 .40523191 .7820 Indirect effect of X on Y Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626	******	**** TOTAL	, DIRECT, A	ND INDIREC	T EFFECTS *	*****	*****
0722 .19373726 .71044575 .3132 Direct effect of X on Y Effect SE t p LLCI ULCI .2314 .2766 .8368 .40523191 .7820 Indirect effect of X on Y Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626	Total effect	of X on Y					
Direct effect of X on Y Effect SE t p LLCI ULCI .2314 .2766 .8368 .40523191 .7820 Indirect effect of X on Y Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626	Effect	SE	t	p	LLCI	ULCI	
Effect SE t p LLCI ULCI .2314 .2766 .8368 .40523191 .7820 Indirect effect of X on Y Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626	0722	.1937	3726	.7104	4575	.3132	
Effect SE t p LLCI ULCI .2314 .2766 .8368 .40523191 .7820 Indirect effect of X on Y Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626	Direct effoc	t of Y on Y					
.2314 .2766 .8368 .40523191 .7820 Indirect effect of X on Y				~	T.T.CT	TIT.CT	
Indirect effect of X on Y Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626				_			
Effect Boot SE BootLLCI BootULCI TOTAL3036 .19797230 .0626	.2314	. 2 / 00	.0308	.4052	3191	./620	
TOTAL3036 .19797230 .0626	Indirect eff						
		Effect	Boot SE B	ootLLCI	BootULCI		
POSITIVE3169 .17636735 .0245	TOTAL						
	DOCTUTIVE	2160	1762	- 6735	0245		

```
NEGATIVE .0133 .0808 -.1662 (C1) -.3302 .1898 -.7535
                                                 .1513
                                               -.0036
Partially standardized indirect effect of X on Y
            Effect Boot SE BootLLCI BootULCI
         -.0334 .0214 -.0748
-.0349 .0194 -.0710
.0015 .0087 -.0184
POSITIVE
                                    -.0710
                                                 .0056
NEGATIVE
                                                 .0154
Completely standardized indirect effect of X on Y
          Effect Boot SE BootLLCI BootULCI
TOTAL -.1740 .1085 -.3931 .0458

POSITIVE -.1817 .0996 -.3788 .0166

NEGATIVE .0076 .0437 -.0909 .0809
Ratio of indirect to total effect of X on Y
          Effect Boot SE BootLLCI
                                            BootULCI
TOTAL 4.2076 1113.7900 .8229 74754.1537
POSITIVE 4.3922 1088.3069 1.0206 72546.7622
NEGATIVE -.1846 50.3914 -50.8477 .9449
Ratio of indirect to direct effect of {\tt X} on {\tt Y}
           Effect Boot SE BootLLCI BootULCI
TOTAL -1.3118 21.3374 -51.6862 -.1075
POSITIVE -1.3693 22.2072 -98.4322 -.4408
NEGATIVE .0576 3.7088 -.6513 11.1337
Normal theory tests for specific indirect effects
            Effect se Z p
            -.3169 .2091 -1.5155
.0133 .0631 .2110
                                               .1296
POSITIVE
NEGATIVE
Specific indirect effect contrast definitions
(C1) POSITIVE minus NEGATIVE
************* ANALYSIS NOTES AND WARNINGS ******************
Number of bootstrap samples for bias corrected bootstrap confidence
intervals:
     5000
Level of confidence for all confidence intervals in output:
    95.00
----- END MATRIX ----
Anxiety
Run MATRIX procedure:
******* PROCESS Procedure for SPSS Release 2.13.2 **********
          Written by Andrew F. Hayes, Ph.D. www.afhayes.com
    Documentation available in Hayes (2013). www.guilford.com/p/hayes3
******************
Model = 4
   Y = ANXIETY
    X = INTRIN
```

M1 = POSITIVE

M2 = NEGATIVE

Statistical Controls: CONTROL= RELI_INT

Sample size

******************* Outcome: POSITIVE Model Summary

R R-sq MSE F df1 df2 .7939 .6 81.0000 .0000 .6302 14.3732 69.0297 2.0000

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 2.7326
 1.1756
 2.3244
 .0226
 .3935
 5.0716

 INTRIN
 .7308
 .0804
 9.0950
 .0000
 .5709
 .8907

 RELI_INT
 .1918
 .5251
 .3653
 .7158
 -.8530
 1.2367

Covariance matrix of regression parameter estimates

constant INTRIN RELI_INT

 constant
 1.3820
 -.0883
 .3307

 INTRIN
 -.0883
 .0065
 -.0257

 RELI_INT
 .3307
 -.0257
 .2758

 RELI_INT

Outcome: NEGATIVE

Model Summary

R R-sq MSE F df1 df2 .0553 10.6745 2.3702 2.0000 .2351 81.0000 .0999

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 8.4545
 1.0131
 8.3452
 .0000
 6.4388
 10.4703

 INTRIN
 .0157
 .0692
 .2268
 .8212
 -.1221
 .1535

 RELI_INT
 .7150
 .4525
 1.5799
 .1180
 -.1854
 1.6154

Covariance matrix of regression parameter estimates

constant INTRIN RELI_INT 1.0264 -.0656
 1.0264
 -.0656
 .2456

 -.0656
 .0048
 -.0191

 .2456
 -.0191
 .2048
 constant TNTRTN RELI_INT

Outcome: ANXIETY

Model Summary

R R-sq MSE F df1 df2 .3202 .1025 44.0518 2.2558 4.0000 79.0000 .0705

Model

coeff se t p LLCI ULCI

aonatont	6000	0 01/1	2440	0072	4 0122	6 2006
constant POSITIVE	.6892 1946	2.8141 .2101	.2449 9263	.8072 .3571	-4.9122 6128	6.2906 .2236
NEGATIVE	.6939	.2438	2.8462	.0056	.2086	1.1792
						.5237
INTRIN	.1113	.2072	.5371	.5927	3011	
RELI_INT	-1.0617	.9337	-1.1371	.2589	-2.9203	.7968
Q						
Covariance ma					DELT THE	
		OSITIVE			RELI_INT	
constant	7.9193	.0431		2951	1.3269	
POSITIVE	.0431		0194	0320	.0054	
NEGATIVE	4496	0194	.0594	.0132	0388	
	2951	0320	.0132	.0429	0820	
RELI_INT	1.3269	.0054	0388	0820	.8719	
****	****	*** momat	DDDDGE MODEL		***********	
*****		^^^ TOTAL	ELLECT MODEL	*****		
Outcome: ANX	T FT. A					
Madal Commen	_					
Model Summar		MOE		df1	df2	
R	R-sq	MSE	F	all	Q12	
.1009	0100	47 2020	41.67	2 0000		
	.0102	47.3838	.4167	2.0000		
81.0000	.6606					
Model						
Model	coeff		+	2	LLCI	ULCI
		se	t	p		
	6.0240		2.8222	.0060		10.2709
	0200	.1459			3103	.2702
RELI_INT	6029	.9535	6324	.5289	-2.5000	1.2941
Covariance ma	atriv of ro	aroggion n	arameter est	imatos		
	atrix or re onstant		arameter est RELI_INT	Illaces		
constant	4.5560	2912	1.0903			
	2912		0847			
RELI INT	1.0903	0847				
KELT_INI	1.0903	0647	.9091			
*****	**** TOTAT	DIRECT	AND TNDTRECT	* 270,374,3	*****	*****
	IOIAL	i, binder,	AND INDINECT	EFFECTS		
Total effect	of X on Y					
Effect	SE	t	р	LLCI	ULCI	
0200	.1459	1374		3103		
.0200	.1133	.1371	.0711	.3103	.2702	
Direct effec	t of X on Y	-				
Effect	SE	t	р	LLCI	ULCI	
.1113	.2072	.5371	-	3011		
,1110	, _ , _	• • • • • • • • • • • • • • • • • • • •	, , , ,	.5011	.020.	
Indirect eff	ect of X on	Y				
	Effect	Boot SE	BootLLCI B	ootULCI		
TOTAL	1313	.1523	4409	.1613		
POSITIVE	1422	.1432	4351	.1392		
NEGATIVE	.0109	.0616	1177	.1300		
(C1)	1531	.1593	5053	.1273		
(02)	.1001			/ 3		
Partially sta	andardized	indirect e	ffect of X o	n Y		
2				ootULCI		
TOTAL	0192	.0222	0615	.0264		
POSITIVE	0208	.0211	0600	.0227		
NEGATIVE	.0016	.0090	0170	.0193		
			. 3 3			
Completely s	tandardized	indirect	effect of X	on Y		
1 1 2 2 2 2 2 2				ootULCI		
TOTAL	1000	.1134	3167	.1379		

```
POSITIVE -.1083 .1088 -.3194
NEGATIVE .0083 .0456 -.0827
                                      .1137
                                        .0994
                 Boot SE BootLLCI 74.2760
Ratio of indirect to total effect of X on Y
          Effect
                          3.1507 3129.3461
           6.5515
                  84.3897
POSITIVE
                              3.5458 3294.1872
          7.0951
NEGATIVE
          -.5436
                  15.8093 -253.7654
                                        .2247
Ratio of indirect to direct effect of X on Y
          Effect
                  Boot SE BootLLCI BootULCI
TOTAL
          -1.1801 171.5957
                           -63.3075
POSITIVE
         -1.2781 207.3871 -141.8795
                                        .4322
NEGATIVE
           .0979
                  41.3336
                             -.8228
                                     23.1371
Normal theory tests for specific indirect effects
         Effect se
                               Z
                    .1553
          -.1422
.0109
                            -.9160
                                        .3596
POSITIVE
NEGATIVE
                    .0511
                              .2134
                                        .8310
Specific indirect effect contrast definitions
(C1) POSITIVE minus NEGATIVE
************ ANALYSIS NOTES AND WARNINGS ******************
Number of bootstrap samples for bias corrected bootstrap confidence
intervals:
    5000
Level of confidence for all confidence intervals in output:
   95.00
----- END MATRIX -----
Life satisfaction
Run MATRIX procedure:
******* PROCESS Procedure for SPSS Release 2.13.2 **********
        Written by Andrew F. Hayes, Ph.D.
                                      www.afhayes.com
   Documentation available in Hayes (2013). www.guilford.com/p/hayes3
******************
Model = 4
   Y = SWL
   X = INTRIN
  M1 = POSITIVE
  M2 = NEGATIVE
Statistical Controls:
CONTROL= RELI_INT
Sample size
************************
Outcome: POSITIVE
Model Summary
              R-sq MSE F df1 df2
       R
р
```

.7939 81.0000	.0000	2 14.373	69.02	297 2.0	000	
Model						
constant INTRIN RELI_INT	coeff 2.7326 .7308 .1918	se 1.1756 .0804 .5251	2.3244 9.0950 .3653	.0226 .0000 .7158	.3935	ULCI 5.0716 .8907 1.2367
Covariance	matrix of	regression	parameter	estimates		
gongtont	constant 1.3820	INTRIN 0883	RELI_INT .3307			
constant INTRIN	0883	.0065	0257			
RELI_INT	.3307	0257	.2758			
******	*****	*****	*****	*****	*****	*****
Outcome: NE	EGATIVE					
Model Summa	ary					
	R-s	d WS	SE	F	df1	df2
p .2351	L .055	3 10.674	.5 2.3°	702 2 0	000	
81.0000	.0999	10.074	2.3	702 2.0	7000	
Model						
	coeff	se	t	p		ULCI
constant	8.4545	1.0131	8.3452	.0000		10.4703
INTRIN	.0157	.0692	.2268	.8212		.1535
RELI_INT	.7150	.4525	1.5799	.1180	1854	1.6154
Covariance		regression	parameter	estimates		
	constant	INTRIN	RELI_INT			
constant	1.0264	0656	.2456			
INTRIN RELI INT	0656 .2456	.0048 0191	0191 .2048			
10001_1111	. 2 150	.0171	.2010			
**************************************		*****	******	* * * * * * * * * * *	*****	*****
Model Summa	ary					
	R-s	d WS	SE	F	df1	df2
p	1 115	9 55.003	32 2.58	270 4 0	000	
.3404 79.0000	1 .115 .0431	55.003	52 2.50	3/9 4.0	1000	
Model						
	coeff	se	t	p		ULCI
constant	28.0888	3.1445	8.9326	.0000		34.3478
POSITIVE NEGATIVE	.5456 7939	.2348 .2724	2.3239 -2.9143	.0227		1.0129 2517
INTRIN	3740	.2315	-1.6152	.1103		.0869
RELI_INT	.1447	1.0434	.1387	.8900		2.2215
Covariance	matrix of	regression	parameter	estimates		
	constant	POSITIVE	NEGATIVE	INTRIN	_	
constant	9.8881	.0538	5614	3685		
POSITIVE	.0538	.0551	0242	0399		
NEGATIVE	5614	0242 0399	.0742	.0165		
INTRIN RELI_INT	3685 1.6568	0399 .0067	0484			
	1.0500	.0007	.0101	.1029	1.0000	

********* Outcome:		*****	**** TOTA	L EFFE	ECT MO	DEL	*****	* * * * * * * * * * * *	*****
Model Sum	mary								
		R-sq	M	SE		F	df1	df2	
р									
	.94		60.59	61	.05	24	2.0000		
Model		5.5							
		eff	se		t		р		ULCI
constant	22.8			9.				18.0647	27.6701
INTRIN	.0							3160	
RELI_INT	3	3182	1.0782		. 2952		.7686	-2.4636	1.8271
Covarianc		x of re				esti	mates		
constant	5.8	263	3724	1.	.3944				
INTRIN					.1083				
RELI_INT	1.3	944	1083	1.	.1626				
*****	*****	* TOTAI	L, DIRECT	, AND	INDIR	ECT	EFFECTS *	* * * * * * * * * * * *	*****
Total eff	ect of	X on Y							
Effe		SE		t		р	LLCI	ULCI	
	.23				.94	09	3160		
Direct ef									
	ect		L	t		n	T.T.CT	ULCI	
			-1.61			03			
37	40	. 2313	-1.01	J	• + +	0.3	0340	.0009	
Indirect	effect	of X or	n Y						
	Eff	ect	Boot SE	Boot	LLCI	Во	otULCI		
TOTAL		862	.1931		.0184		.7745		
POSITIVE	. 3	987	.1782		.0494		.7597		
NEGATIVE	0	125	.0704		.1217		.1563		
(C1)	. 4	112	.1901		.0546		.7947		
Partially	standa	ırdized	indirect	effec	ct of	X on	Y		
	Eff	ect	Boot SE	Boot	LLCI	Во	otULCI		
TOTAL	.0	1499	.0240		.0002		.0953		
POSITIVE	.0	515	.0221		.0052		.0934		
NEGATIVE	0	016	.0091		.0159		.0200		
Completel									
		ect	Boot SE		LLCI	Во	otULCI		
TOTAL		1601	.1216		.0157		.4985		
POSITIVE		1685	.1146		.0425		.5006		
NEGATIVE	0	0084	.0458		.0831		.0993		
Ratio of			otal effe Boot SE		X on		otULCI		
TOTAL	31.4	604 1	122.3836	23.	.4590	236	8.5807		
POSITIVE	32.4		115.3403	28.	.0967	234	7.7853		
NEGATIVE	-1.0		30.0689				1608		
Ratio of									
			Boot SE		LLCI	Во	otULCI		
TOTAL	-1.0		29.8257		.9939		.0725		
POSITIVE	-1.0		31.1768		.0158		4077		
NEGATIVE	. 0	1333	4.9631		.5521		1.5506		

Normal theory tests for specific indirect effects Effect se Z POSITIVE .3987 .1781 2.2389 .0252 -.2139 NEGATIVE -.0125 .0583 .8306 Specific indirect effect contrast definitions (C1) POSITIVE minus NEGATIVE ********** ANALYSIS NOTES AND WARNINGS **************** Number of bootstrap samples for bias corrected bootstrap confidence intervals: 5000 WARNING: Bootstrap CI endpoints below not trustworthy. Decrease confidence or increase bootstraps -1839.6843 Level of confidence for all confidence intervals in output: ---- END MATRIX ----Positive affect Run MATRIX procedure: ******* PROCESS Procedure for SPSS Release 2.13.2 ********** Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2013). www.quilford.com/p/hayes3 ******************* Model = 4Y = PACX = INTRINM1 = POSITIVE M2 = NEGATIVEStatistical Controls: CONTROL= RELI_INT Sample size ******************** Outcome: POSITIVE Model Summary MSE df1 df2 R-sq F R .7939 .6302 14.3732 69.0297 2.0000 .0000 81.0000 Model coeff LLCI se t g ULCI constant 1.1756 .7308 .0804 .1918 .505 1.1756 2.3244 .0226 .3935 5.0716 2.7326 9.0950 .3653 .5709 -.8530 .7308 .0000 .8907 INTRIN RELI_INT .5251 1.2367 .7158

Covariance matrix of regression parameter estimates

constant INTRIN RELI_INT	constant 1.3820 0883 .3307	0883	LI_INT .3307 0257 .2758			
**************************************	****** EGATIVE	* * * * * * * * * * * *	*****	******	* * * * * * * * * * * *	*****
Model Summ	ary R R-sq	MSE	F	df1	df2	
p .235	1 .0553	10.6745	2.3702	2.0000		
81.0000	.0999	10.0745	2.3/02	2.0000		
Model						
	coeff	se	t	р	LLCI	ULCI
constant	8.4545	1.0131	8.3452	.0000	6.4388 10	0.4703
INTRIN	.0157	.0692	.2268	.8212	1221	.1535
RELI_INT	.7150	.4525	1.5799	.1180	1854	1.6154
Covariance	matrix of reconstant	gression para		imates		
constant			.2456			
INTRIN			0191			
RELI_INT	.2456	0191	.2048			
******	*****	* * * * * * * * * * * * *	*****	*****	****	* * * * * *
Outcome: P.	AC					
Model Summ	ary R R-sq	MSE	F	df1	df2	
•						
p	-	1101	1	dli	QI Z	
p .131 79.0000	-	1.8946	.3447		ULZ.	
.131 79.0000	0 .0172	-			ulz	
.131	0 .0172	1.8946	.3447	4.0000		
.131 79.0000 Model	0 .0172 .8469 coeff	1.8946 se	.3447 t	4.0000 p	LLCI	ULCI
.131 79.0000 Model constant	0 .0172 .8469 coeff 4.2381	1.8946 se .5836	.3447 t 7.2619	4.0000 p	LLCI 3.0764	5.3997
.131 79.0000 Model constant POSITIVE	0 .0172 .8469 coeff 4.2381 .0287	1.8946 se .5836 .0436	.3447 t 7.2619 .6585	4.0000 p .0000 .5122	LLCI 3.0764 0580	5.3997 .1154
.131 79.0000 Model constant POSITIVE NEGATIVE	0 .0172 .8469 coeff 4.2381 .0287 0478	se .5836 .0436 .0506	.3447 t 7.2619 .6585 9457	4.0000 p .0000 .5122 .3472	LLCI 3.0764 0580 1485	5.3997 .1154 .0528
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN	0 .0172 .8469 coeff 4.2381 .0287 0478 0250	se .5836 .0436 .0506 .0430	.3447 t 7.2619 .6585 9457 5823	4.0000 p .0000 .5122 .3472 .5620	LLCI 3.0764 0580 1485 1106	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE	0 .0172 .8469 coeff 4.2381 .0287 0478	se .5836 .0436 .0506	.3447 t 7.2619 .6585 9457	4.0000 p .0000 .5122 .3472	LLCI 3.0764 0580 1485	5.3997 .1154 .0528
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of re	se .5836 .0436 .0506 .0430 .1936	.3447 t 7.2619 .6585 9457 5823 .7101 ameter est	p.0000 .5122 .3472 .5620 .4797	LLCI 3.0764 0580 1485 1106	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant	se .5836 .0436 .0506 .0430 .1936 gression para	.3447 t 7.2619 .6585 9457 5823 .7101 ameter est	4.0000 p .0000 .5122 .3472 .5620 .4797 imates INTRIN R	LLCI 3.0764 0580 1485 1106 2479	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Poefic constant Poefic 2406	se .5836 .0436 .0506 .0430 .1936 gression para	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE0193	4.0000 p .0000 .5122 .3472 .5620 .4797 imates INTRIN R0127	LLCI 3.07640580148511062479 ELI_INT .0571	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Poets	se .5836 .0436 .0506 .0430 .1936 gression para OSITIVE NEG .0019	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008	4.0000 p .0000 .5122 .3472 .5620 .4797 imates INTRIN R01270014	LLCI 3.07640580148511062479 ELI_INT .0571 .0002	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Poefic Constant Po	se .5836 .0436 .0506 .0430 .1936 gression para OSITIVE NEG .0019 .0019	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026	4.0000 p .0000 .5122 .3472 .5620 .4797 imates INTRIN R01270014 .0006	LLCI 3.07640580148511062479 ELI_INT .0571 .00020017	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Poets 13406 .0019 0193 0127	se .5836 .0436 .0506 .0430 .1936 gression para OSITIVE NEG .0019 .0019 0008 0014	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .0006	4.0000 p .0000 .5122 .3472 .5620 .4797 imates INTRIN R01270014 .0006 .0018	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Poets 13406 .0019 0193 0127	se .5836 .0436 .0506 .0430 .1936 gression para OSITIVE NEG .0019 .0019 0008 0014	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026	4.0000 p .0000 .5122 .3472 .5620 .4797 imates INTRIN R01270014 .0006	LLCI 3.07640580148511062479 ELI_INT .0571 .00020017	5.3997 .1154 .0528 .0605
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN RELI_INT	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Poets 13406 .0019 0193 0127	se .5836 .0436 .0506 .0430 .1936 gression para .0019 .0019 .0019 0008 0014 .0002	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .00060017	P0000 .5122 .3472 .5620 .4797 imates INTRIN R 0127 0014 .0006 .0018 0035	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035 .0375	5.3997 .1154 .0528 .0605 .5229
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN RELI_INT	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Poly 1000 .0019 0193 0127 .0571	se .5836 .0436 .0506 .0430 .1936 gression para .0019 .0019 .0019 0008 0014 .0002	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .00060017	P0000 .5122 .3472 .5620 .4797 imates INTRIN R 0127 0014 .0006 .0018 0035	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035 .0375	5.3997 .1154 .0528 .0605 .5229
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN RELI_INT ***********************************	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Polyander of the constant Polyander of the con	se .5836 .0436 .0506 .0430 .1936 gression para .0019 .0019 .0019 0008 0014 .0002	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .00060017	P0000 .5122 .3472 .5620 .4797 imates INTRIN R 0127 0014 .0006 .0018 0035	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035 .0375	5.3997 .1154 .0528 .0605 .5229
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN RELI_INT ********* Outcome: P. Model Summ.	0 .0172 .8469 coeff 4.2381 .0287 0478 0250 .1375 matrix of reconstant Polyander of the constant Polyander of the con	se .5836 .0436 .0506 .0430 .1936 gression para .0019 .0019 .0019 0008 0014 .0002	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .00060017	P0000 .5122 .3472 .5620 .4797 imates INTRIN R 0127 0014 .0006 .0018 0035	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035 .0375	5.3997 .1154 .0528 .0605 .5229
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN RELI_INT ********* Outcome: P. Model Summ P	coeff 4.2381 .028704780250 .1375 matrix of reconstant .3406 .001901930127 .0571 ***********************************	se .5836 .0436 .0506 .0430 .1936 gression para OSITIVE NEG .0019 .0019 0008 0014 .0002	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .00060017 FECT MODEL	P.0000 .5122 .3472 .5620 .4797 imates INTRIN R 0127 0014 .0006 .0018 0035	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035 .0375	5.3997 .1154 .0528 .0605 .5229
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN RELI_INT ********* Outcome: P. Model Summ. p .068	coeff 4.2381 .028704780250 .1375 matrix of reconstant .3406 .001901930127 .0571 ***********************************	se .5836 .0436 .0506 .0430 .1936 gression para OSITIVE NEG .0019 .0019 0008 0014 .0002	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .00060017 FECT MODEL	P.0000 .5122 .3472 .5620 .4797 imates INTRIN R 0127 0014 .0006 .0018 0035	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035 .0375	5.3997 .1154 .0528 .0605 .5229
.131 79.0000 Model constant POSITIVE NEGATIVE INTRIN RELI_INT Covariance constant POSITIVE NEGATIVE INTRIN RELI_INT ********* Outcome: P. Model Summ P	coeff 4.2381 .028704780250 .1375 matrix of reconstant .3406 .001901930127 .0571 ***********************************	se .5836 .0436 .0506 .0430 .1936 gression para OSITIVE NEG .0019 .0019 0008 0014 .0002	.3447 t 7.2619 .658594575823 .7101 ameter est GATIVE01930008 .0026 .00060017 FECT MODEL	P.0000 .5122 .3472 .5620 .4797 imates INTRIN R 0127 0014 .0006 .0018 0035	LLCI 3.07640580148511062479 ELI_INT .0571 .000200170035 .0375	5.3997 .1154 .0528 .0605 .5229

Model

constant INTRIN RELI_INT	coeff 3.9122 0048 .1088	se .4242 .0290 .1895	9.2233 1657 .5743	p .0000 .8688 .5673	LLCI 3.0682 0625 2682	ULCI 4.7562 .0529 .4858
Covariance m				estimates		
			RELI_INT			
constant	.1799 0115	0115 .0008	.0431			
INTRIN RELI_INT	.0431		.0359			
KELL_INI	.0431	0033	.0339			
*****	**** TOT.	AL, DIRECT	, AND INDIR	ECT EFFECTS *	*****	*****
Total effect						
Effect	S		t	p LLCI		
0048	.029	016	57 .86	880625	.0529	
Direct effec	t of X on	Y				
Effect	S		t	p LLCI	ULCI	
0250	.043	058	23 .56	_	.0605	
Indirect eff						
	Effect		BootLLCI			
TOTAL	.0202	.0337	0497	.0842		
POSITIVE	.0210		0468	.0831		
NEGATIVE	0008 .0217		0189	.0059		
(C1)	.0217	.0336	0430	.0900		
Partially st	andardize	d indirect	effect of	X on Y		
-	Effect		BootLLCI			
TOTAL	.0149	.0247	0400	.0587		
POSITIVE	.0154	.0243	0372	.0587		
NEGATIVE	0006	.0050	0145	.0044		
a 1 1 1						
Completely s	tandardız Effect					
TOTAL	.0775	.1268	BootLLCI 2096	.3080		
POSITIVE	.0803	.1255	1910	.3093		
NEGATIVE	0029	.0251	0662	.0222		
NEORITVE	.0025	.0251	.0002	.0222		
Ratio of ind	lirect to	total effe	ct of X on	Y		
		Boot SE		BootULCI		
			-7521.2847			
POSITIVE						
NEGATIVE	.1563	45.5243	0323	416.8473		
Ratio of ind	lirect to	direct eff	ect of X on	Υ		
1101010 01 1110			BootLLCI			
TOTAL			-73.1932	.8287		
POSITIVE	8380	157.8784	-115.1755	.4574		
NEGATIVE	.0300	14.6092	1436	26.4679		
		1.5.				
Normal theor						
DOCTOTO	Effect	se .0321	Z 6529	p 5120		
POSITIVE NEGATIVE	.0210 0008		.6528 1538	.5139 .8778		
NEGALIVE	0000	.0049	1330	.0//0		
Specific ind	lirect eff	ect contra	st definiti	ons		
(C1) POSIT			GATIVE			

********** ANALYSIS NOTES AND WARNINGS *****************

Number of bootstrap samples for bias corrected bootstrap confidence intervals: 5000

WARNING: Bootstrap CI endpoints below not trustworthy. Decrease confidence or increase bootstraps
-7521.2847 -5655.8381

Level of confidence for all confidence intervals in output: 95.00

----- END MATRIX ----

Sense of coherence

Run MATRIX procedure:

******* PROCESS Procedure for SPSS Release 2.13.2 **********

Written by Andrew F. Hayes, Ph.D. www.afhayes.com Documentation available in Hayes (2013). www.guilford.com/p/hayes3

Model = 4

Y = SOC

X = INTRIN

M1 = POSITIVE

M2 = NEGATIVE

Statistical Controls:

CONTROL= RELI_INT

Sample size

84

Outcome: POSITIVE

Model Summary

R R-sq MSE F df1 df2 p .7939 .6302 14.3732 69.0297 2.0000

81.0000 .0000

Model

 coeff
 se
 t
 p
 LLCI
 ULCI

 constant
 2.7326
 1.1756
 2.3244
 .0226
 .3935
 5.0716

 INTRIN
 .7308
 .0804
 9.0950
 .0000
 .5709
 .8907

 RELI_INT
 .1918
 .5251
 .3653
 .7158
 -.8530
 1.2367

Covariance matrix of regression parameter estimates

 constant
 INTRIN
 RELI_INT

 constant
 1.3820
 -.0883
 .3307

 INTRIN
 -.0883
 .0065
 -.0257

 RELI_INT
 .3307
 -.0257
 .2758

Outcome: NEGATIVE

Model Summary

	R R-	sq M	SE	F	df1	df2
.235	1 .05	53 10.67	45 2.37	702 2	0000	
81.0000	.0999	33 10.07	15 2.5	702 2.	0000	
Model						
	coeff	se	t		p LLC	I ULCI
constant	8.4545	1.0131	8.3452	.000		
INTRIN	.0157	.0692	.2268	.821		
RELI_INT	.7150	.4525	1.5799	.118	0185	4 1.6154
Q						
Covariance	matrix or constant	regression INTRIN	RELI_INT	estimates		
constant	1.0264	0656	.2456			
INTRIN	0656	.0048	0191			
RELI_INT	.2456	0191	.2048			
_						
******	*****	*****	*****	******	*****	*****
Outcome: S	OC					
Model Summ	_					
	R R-	sq M	SE	F	df1	df2
.338	2 .11	43 79.74	86 2.54	100 4	0000	
79.0000	.0456	43 /9./4	00 2.54	199 4.	0000	
79.0000	.0430					
Model						
110002	coeff	se	t		p LLC	I ULCI
constant	51.2081	3.7864	13.5243	.000	-	
POSITIVE	.5487	.2827	1.9409	.055		0 1.1113
NEGATIVE	8737	.3280	-2.6634	.009	4 -1.526	62208
INTRIN	6543	.2788	-2.3469	.021	4 -1.209	20994
RELI_INT	1.2762	1.2563	1.0158	.312	8 -1.224	5 3.7768
Covariance		regression				_
	constant	POSITIVE	NEGATIVE	INTRI	_	
constant	14.3366	.0779	8140	534		
POSITIVE	.0779	.0799	0350	057 .023		
NEGATIVE INTRIN	8140 5342	0350 0578	.1076	.023		
RELI INT	2.4021	.0097	.0239	148		
KEDI_INI	2.1021	.0057	.0702	.110	1.570	1
*****	*****	***** TOTA	L EFFECT MO	DEL ****	*****	*****
Outcome: S		-				
Model Summ	ary					
:	R R-	sq M	SE	F	df1	df2
p						
.153		34 85.76	62 .97	706 2.	0000	
81.0000	.3832					
Model						
1.0001	coeff	se	t		p LLC	I ULCI
constant	45.3208	2.8717			-	
INTRIN	2670	.1963	-1.3605			
RELI_INT	.7568	1.2828	.5900	.556		
Covariance	matrix of	regression		estimates		
	constant	INTRIN	RELI_INT			
constant	8.2465	5271				
INTRIN	5271	.0385	1533			

```
1.9736
                       -.1533
RELI_INT
                                   1.6455
****** TOTAL, DIRECT, AND INDIRECT EFFECTS *************
Total effect of X on Y
                 SE t p LLCI ULCI .1963 -1.3605 .1774 -.6576 .1235
     Effect
     -.2670
Direct effect of X on Y
     Effect
                             t
                 SE t p LLCI ULCI .2788 -2.3469 .0214 -1.2092 -.0994
     -.6543
Indirect effect of X on Y
       Effect Boot SE BootLLCI BootULCI
TOTAL .3872 .2179 -.0571 .8094
POSITIVE .4010 .2047 -.0135 .8035
NEGATIVE -.0137 .0795 -.1564 .1603
(C1) .4147 .2213 .0054 .8705
Partially standardized indirect effect of X on Y
      Effect Boot SE BootLLCI BootULCI
TOTAL .0416 .0233 -.0077 .0847
POSITIVE .0431 .0220 -.0040 .0835
NEGATIVE -.0015 .0086 -.0171 .0170
Completely standardized indirect effect of X on Y
         Effect Boot SE BootLLCI BootULCI
TOTAL .2167 .1202 -.0311 .4465
POSITIVE .2244 .1155 -.0062 .4525
NEGATIVE -.0077 .0438 -.0918 .0847
Ratio of indirect to total effect of X on Y
            Effect Boot SE BootLLCI BootULCI
TOTAL
           -1.4501 110.6997 -39.6938 2.8972
POSITIVE -1.5015 115.7667 -37.3478
            .0514 14.6678 -2.1480
NEGATIVE
Ratio of indirect to direct effect of X on Y
           Effect Boot SE BootLLCI BootULCI
TOTAL -.5919 9.1519 -1.3913 .1635
POSITIVE -.6128 6.4219 -1.5680 -.0726
NEGATIVE .0210 3.8552 -.3061 .5139
Normal theory tests for specific indirect effects
          Effect se Z
.4010 .2125 1.8872 .0
                                               .0591
POSITIVE
           -.0137 .0648 -.2116 .8324
NEGATIVE
Specific indirect effect contrast definitions
(C1) POSITIVE minus NEGATIVE
************ ANALYSIS NOTES AND WARNINGS *****************
Number of bootstrap samples for bias corrected bootstrap confidence
intervals:
    5000
Level of confidence for all confidence intervals in output:
    95.00
```

----- END MATRIX -----