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Pepperdine University

Graduate School of Education and Psychology

MORALLY INJURIOUS SYMPTOMATOLOGY: A QUALITATIVE EXAMINATION OF THE NVVRS

A clinical dissertation submitted in partial satisfaction of the requirements for the degree of Doctor of Psychology

by

Douglas Stewart Kraus

April, 2013

David W. Foy, Ph.D. – Dissertation Chairperson

This clinical dissertation, written by

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under the guidance of a Faculty Committee and approved by its members, has been submitted to and accepted by the Graduate Faculty in partial fulfillment of the requirements for the degree of

DOCTOR OF PSYCHOLOGY

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DEDICATION

I dedicate my work to my family, friends, partner, and mentors. Without their unwavering support, practical guidance, and genuine caring, I would not have succeeded in graduate school and come out the other side to tell the tale. I will be forever grateful to you all! As I look forward to the future, I feel lucky and blessed to have the people in my life that I do.

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ABSTRACT

As with all psychological constructs in their infancy, it is important to operationalize a definition as part of the construct validation process. As a phenomenon that continues to gain recognition amongst the psychological community, Moral Injury (MI) is no different. Although Litz et al. (2009) introduced and defined MI as the "psychological, biological, spiritual, behavioral, and social impact of perpetrating, failing to prevent, or bearing witness to acts that transgress deeply held more beliefs and expectations," Drescher et al. (2011) found that a similar working definition was "inadequate" and lacked clarity according to trauma experts' opinion. The following exploratory, qualitative study attempts to validate and enhance the current definitional understanding of MI by identifying associated thematic signs and symptoms as reported by 100 randomly selected veterans from the Combat Subsample of the National Vietnam Veterans Readjustment Study (NVVRS). Major themes generated by blind coders were compared with thematic signs and symptoms of MI as developed by Drescher et al. (2011). Although MI was not identified as a theme by coders, signs and symptoms of MI were identified throughout the data.

Introduction

There is ample evidence to suggest that warzone trauma consists of multiple dimensions and is resultant from multiple causes (King, King, Gudanowski, & Vreven, 1995; Laufer, Gallops & Frey-Wouters, 1984; Yehuda, Southwick, & Giller, 1992). As a result, the psychological effects of exposure to different aspects of war may vary in presentation from one veteran to another, and are not strictly limited to the symptoms of Posttraumatic Stress Disorder (PTSD; Laufer et al., 1984). In other words, some veterans fail to develop PTSD, develop PTSD, or develop other associated symptoms (in the absence, or presence of PTSD). These symptoms include signs of depression (such as dysphoria, anhedonia, and social isolation), relational problems, parenting problems, suicidal behavior, domestic violence, substance abuse, criminal behavior, loss of spirituality, anger management difficulties, guilt, shame, and other general distresses. Notably, this variance in symptomatic presentation may not only be explained by individual differences in perception (King et al., 1995) or preexisting emotional style (Hendin & Haas, 1984), but also by veterans' differential psychological experiences (Kashdan, Elhai, & Frueh, 2006; Kashdan, Elhai, & Frueh, 2007).

Since early conceptualizations of war related stress, moral and value conflicts have been considered important sources of distress resulting from combat exposure (Laufer et al., 1984, pg. 66). Despite this early incorporation within theory, little research exists at current that addresses the link between combat exposure and changes in morality (Drescher, Foy, Litz, Kelly, Leshner, & Schutz, 2011). As a result of a growing awareness of this deprivation within the psychological literature, there has recently been

a renewed interest in the emotional, spiritual, and psychological wounds that result from ethical and moral challenges that combatants confront during war (Litz, Stein, Delaney, Lebowitz, Nash, Silva, & Maguen, 2009). This renewed interest recognizes the essentiality for studies to investigate ethical and moral challenges in the warzone, as these origins may be important in accounting for unique symptom presentations that result from Veteran's differential reaction to warzone trauma.

Moral Injury (MI) is a construct that has recently been proposed to describe disruption in an individual's sense of personal morality (Drescher et al., 2011). More specifically, MI has been described in the psychological literature as:

A disruption in an individual's confidence and expectations about one's own or other's motivation or capacity to behave in a just and ethical manner. This injury is brought about by bearing witness to perceived immoral acts, failure to stop such actions, or perpetration of immoral acts, in particular actions that are inhumane, cruel, deprayed, or violent, bringing about pain, suffering, or death of others (Drescher et al., 2011).

In order to understand the genesis of a MI, one must first understand the impact that perception has upon its development. For an event to be deemed as morally injurious, a person must first perceive this event to come in conflict with his or her morals. Lazarus, DeLongis, Folkman, and Gruen (1985) stress that there is no pure stressor that can be isolated from personal appraisal. Further, the entire process of experiencing and responding to a stressor is thought to involve cyclical, multifactorial, person-environment relationships (King et al., 1995). Similar ideas are used to explain differential reaction to combat exposure. Hendin and Haas (1984) introduced the notion that post combat stress disorders are not so much a function of the objective war zone

experience, but rather how those experiences are individually perceived and internalized by combatants.

On a related note, Bandura (1999, 2002) describes *moral disengagement* as disengaging from moral self-sanctions through psychological maneuvers which allow for the engagement in reprehensible conduct. Bandura discusses these maneuvers as including the following psychological processes: redefining harmful conduct as honorable by means of moral justification, exonerating social comparison, sanitizing associated internalized and externalized language, minimizing the perpetrator's role in causation of harm through the diffusion and displacement of responsibility, minimizing or distorting the harm that follows detrimental actions, and/or dehumanizing and blaming the victims. In relation to MI, there may be a propensity for one to become morally injured when he or she does not appropriately disengage morally, or in turn, make sense of their moral disengagement.

With these concepts in mind, it is important to note that the Vietnam War has been hypothesized to be a relatively unique war in that its distinctive environmental conditions provided many situational inducements to behave in inhumane ways. More specifically, Vietnam has been referred to as a *war amongst the people*, as not all combatants presented themselves in the traditional form of armies, and it was commonly difficult to differentiate between the identity of the enemy and friendly civilians (Dohrenwend, Turner, Turse, Adams, Koenen, & Marshall, 2007; Laufer et al., 1984). This uncertainty coupled with a lack of support for the U.S. troops' actions (both by local Vietnamese and U.S. civilians at home) lead to a certain sense of insecurity within the

combatants. In turn, this insecurity may have led to sanctioned (and unsanctioned) acts of brutality against civilians, prisoners of war, or even fellow soldiers, as U.S. troops attempted to control an extremely unstable environment. Thus, the Vietnam War itself is seen by many as inherently productive of disproportionate violence, betrayal, incidence involving civilians, and within ranks violence-leading not only to physical discomfort, but also moral discomfort as well. It should be noted that soldiers' exposure to traumas of this variety was not limited to the constraints of combat. In a guerrilla war of this magnitude, exposure to these types of traumas occurred outside of combat as well. Furthermore, level of participation within the trauma also varied uniquely by soldier. Some may have merely witnessed abusive violence, while others ordered it and/or participated within it themselves. Because of this broad range of experience, an extensive range of psychological symptoms and behavioral problems have resulted. In other words, the unique nature of Vietnam War made it a veritable hotbed for the development of a variety of problems, including what some conjecture to be morally injurious events, and as a result presumably MI.

In a qualitative review of interviewed experts with professional experience involving military personnel or war zone veterans, Drescher et al. (2011) identified thematic elements of war zone combat experience (including both trauma exposure and trauma perpetration) that most likely contribute to the production of a MI. Betrayal, disproportionate violence, incidents involving civilians, and within ranks violence were identified as major thematic categories for traumatic events that may lead to the development of MI. Examples of betrayal events included leadership failures, betrayal

by peers, failure to live up to one's own moral standards, and betrayal by trusted civilians. Examples of disproportionate violence were comprised of mistreatment of enemy combatants and acts of rage. Examples of incidents involving civilians were destruction of civilians' property and assault. Examples of within ranks violence were comprised of military sexual trauma, friendly fire, and fragging.

Drescher et al. (2011) also identified thematic categories related to the signs or symptoms of MI by qualitatively reviewing interviews from the same panel of experts. Social problems, loss of trust or a sense of betrayal, spiritual/existential issues, psychological symptoms, and self-deprecation were identified as major thematic categories for signs or symptoms of MI. Examples of social problems were social withdrawal, sociopathy, problems fitting in, legal and disciplinary problems, and parental alienation from their child. Examples of loss of trust or a sense of betrayal were impairments in intimacy, feelings of betrayal by leadership, feelings of betrayal by peers, feelings of betrayal by civilians, and feelings that one has betrayed their own standards. Examples of spiritual/existential issues were giving up or questioning morality, spiritual conflict, profound sorrow, fatalism, loss of meaning, loss of caring, anguish, and feeling haunted. Examples of psychological and social functioning problems included depression, anxiety, anger, re-enactment, denial, occupational dysfunction, and exacerbated pre-existing mental illness. Examples of self-deprecation were comprised of guilt, shame, self-loathing, feeling damaged, and loss of self-worth.

To date, most of the research involving traumas has focused on victimization associated with traumatic events due to the fact that the exposure criteria for PTSD lacks

explicit inclusionary criteria for those who have perpetrated a trauma. As a result, little focus has been placed on the consequences associated with inflicting trauma upon others. Thus, both antecedent events and subsequent symptoms related to MI have been underrepresented within the psychological literature as well. Despite this fact, there are some exceptions that stand as examples of evidence within the current psychological literature that lend credence to the notion that perpetration or other ethical violations can result in unique and long-lasting consequences. For example, Ford (1999) and Singer (2004) found that veterans who reported committing atrocities subsequently presented with symptoms that extended beyond those associated with the diagnostic criteria for PTSD. Relatedly, Maguen et al. (2009) and Maguen et al. (2010) showed that sanctioned war-zone killings were associated with uniquely variant symptom presentations not only in Vietnam Veterans, but also Iraq and Afghanistan War Veterans as well. Thus, unique symptomatic presentations coupled with PTSD have been shown to increase the harm associated with PTSD in a comorbid fashion. However, other researchers have chosen to describe this phenomenon in terms of an increase in PTSD severity. MacNair (2002) found that PTSD associated with killing was more severe, as higher rates of PTSD were associated with those who were directly involved in atrocities in comparison to those who only saw them.

It should be mentioned that a large proportion of the aforementioned literature has utilized the National Vietnam Veterans Readjustment Study (NVVRS; Kulka et al., 1990). This utilization is largely due to the fact that the NVVRS is considered by many

within the psychological community to be the most complete, representative sample of U.S. Veterans from the Vietnam War in existence.

The NVVRS was a federally commissioned, epidemiological study that was conducted between 1986 and 1988 (Kulka et al., 1990). The NVVRS used a randomly selected, stratified, nationally representative sample of 3,016 U.S. Vietnam Era Veterans drawn from 8.2 million military servicepersons by using an area probability approach based on military records. The sample included both men and women, enlisted and officers, and was representative of all branches of the military. African American men, Hispanic men, women, and veterans with disabilities connected to their service were intentionally oversampled. Data was collected via extended interviews and self-report questionnaires in order to ascertain a multitude of pre-military, military service, and postmilitary variables. Of the total 3,016 veterans interviewed, 1,200 men and 432 women were classified as Vietnam Theater Veterans who served Vietnam and its surrounding regions from August 5, 1964 to May 7, 1975. More specifically, the portion of 1,200 male Vietnam Theater Veterans are referred to as the Vietnam Combat subsample. Most published research using the NVVRS data has examined the presence or strength of psychiatric disorders, such as PTSD, and not other psychosocial outcomes, such as those associated with MI (Martz, Bodner, & Livneh, 2009).

Research Objective

The purpose of this study is to examine open-ended responses of the NVVRS to investigate the signs and symptoms associated with MI. More specifically, the study aims to explore the following three research questions:

- i. What types of signs or symptoms are associated with involvement in military combat, an event that is presumed to cultivate MI?
- ii. Do these signs or symptoms match those of MI previously identified by the experts from Drescher et al.'s (2011) study?
- iii. What, if any, additional thematic categories associated with signs or symptoms of MI can be identified through qualitative examination of NVVRS data?

Methods

Participants

This archival study utilized participant data from the National Vietnam Veterans Readjustment Study (NVVRS; Kulka et al. 1990); now a public, de-identified data base. The NVVRS gathered data via an interview procedure which averaged 5 hours in length and comprehensively assessed for pre-military, military service, and post-military aspects of functioning. Informed consent was obtained from participants prior to the start of the NVVRS interview. The overall sample (*N*=3,016) was nationally representative and included veterans and civilians participants from the Vietnam era. Within this overall sample, the Vietnam Theater subsample included 1,632 veterans who served in Vietnam and its surrounding areas between August 5, 1964 and May 7, 1975. This subsample was comprised of both male (*N*=1,200) and female (*N*=432) military personnel within the warzone, and included combatants, nurses, and other military posts. The portion of 1200 male Vietnam Theater veterans is also commonly referred to as the Vietnam Combat subsample. Since this study focused on generating thematic signs and symptoms

associated with participation in warzone combat, a randomly selected sample of 100 participants from the Vietnam Combat subsample was explored.

Measures/ Dataset

Each of these 100 participants responded to the following string of questions as part of the NVVRS interview. First participants were asked to respond to the multiple choice question: "How much would you say the Vietnam War has affected your everyday life? A great deal, a fair amount, hardly at all, or not at all?" As long as the participant responded with any choice other than "not at all," the question, "In what ways has the Vietnam war affected your everyday life?" was asked. Otherwise, this question was skipped. All participants were then asked: "Now please tell me briefly, in your own words, how your experiences, in or around Vietnam, have affected your life? First, what were some of the positive things you gained from your Vietnam experience?" Next, participants were asked: "And, what were some of the negative things?" For the purposes of this study, responses to the two open-ended questions: (a) "In what ways has the Vietnam war affected your everyday life?" and (b) "And, what were some of the negative things?" were examined

Design, Procedures, and Data Analysis

An indirect approach to qualitative content analysis was utilized as a research method in order to interpret the content of responses through descriptive examination of the two following open-ended questions: "In what ways has the Vietnam War affected your everyday life?" and "And, what were some of the negative things?" In general, qualitative content analysis has been defined as "a research method for the subjective

interpretation of the content of text data through the systematic classification process of coding and identifying themes or patterns" (Hsieh & Shannon, 2005). In terms of the current study, the aim was to systematically classify signs and symptoms amongst NVVRS combat participants via the process of coding and identifying symptomatic themes.

Data from the NVVRS was analyzed descriptively on a per-question basis. Coders first read open ended responses in order to derive an initial coding scheme. Responses were then reviewed, sorted, and truncated into more refined thematic categories. Through this process, themes may have been split or combined as deemed appropriate by coders. All coding was collaboratively reviewed between coders to ensure consistency in themes. Discrepancies were resolved through discussion and consensus by all coders. In other words, member checks were utilized as part of the process in order to reduce possible bias, as coding was first completed independently by separate coders, who then compared their findings with one another in order to ensure accuracy. Major thematic categories were developed, and exemplars for each theme were identified from the data. All coders were blind to previously identified thematic categories for signs and symptoms of MI from the Drescher et al. (2011) study. The principle investigator and members of the dissertation lab then reviewed the coders' findings for consistency, resolved any lingering discrepancies, and created subthemes within each major theme in order to increase specificity during data analysis.

All responses and their associated codes were then transferred into a qualitative data analysis software program, HyperRESEARCH 2.8, for further analysis.

Specifically, frequency and extensiveness were calculated for each major theme. Frequency (F) was defined as the total number of responses that received the code of a particular theme, such as *Interpersonal Relationships*. For F, the percentage represents the total number of times this theme was mentioned by all respondents from the total number of comments coded for that interview question. Extensiveness (E) was conceptualized as the total number of participants who made at least one comment that indicated a particular theme. The percentage for E represents the number of participants who mentioned that theme out of all the participants. Both E and F are indicators of the importance of a topic to the participants (Krueger, 1998).

Results

Frequency and Extensiveness

The two interview questions called for open-ended responses from the veterans. The first of these, "In what ways has the Vietnam War affected your everyday life?" elicited a diversity of responses from the participants that were indicative of the varied impact that the war had upon their subsequent level of functioning. More specifically, the 100 participants provided 230 total responses. Of these 230 responses, 39 were uninterpretable, refusals, or instances of no response. Sixteen participants only provided responses of this variety. This left 191 responses from 84 participants which were coded for themes. Imbedded themes identified in the combat veterans' responses were (a) attitude, personality or character change, (b) death, injury or physical health, (c) employment or education, (d) government, politics or media, (e) interpersonal relationships, (f) symptoms indicative of trauma, (g) symptoms indicative of mood

disorder, (h) undifferentiated reaction to war, and (i) positive impact. Refer to Table 1 for a complete listing of major themes and associated subthemes. Frequencies and extensiveness for each major theme are also listed within this table. Relevant exemplars are listed in Table 3.

The second question asked combat veterans, "And, what were some of the negative things?" about their experiences, in or around Vietnam that affected their life. While this question also yielded diverse responses from the participants, these responses focused on the negative impact that the war had upon the veterans' subsequent level of functioning. More specifically, the 100 participants provided 187 responses. Of these 187 responses, 30 were uninterpretable, refusals, or instances of no response. Eight participants only provided responses of this variety. This left 157 responses from 92 veterans which were coded for themes. Imbedded themes identified in the responses were (a) attitude, personality or character change, (b) death, injury or physical health, (c) employment or education, (d) government, politics or media, (e) interpersonal relationships, (f) symptoms indicative of trauma, (g) symptoms indicative of mood disorder, and (h) undifferentiated reaction to war. Refer to Table 2 for a complete listing of major themes and associated subthemes. Frequencies and extensiveness for each major theme are also listed within this table. Relevant exemplars are listed in Table 3.

Moral Injury

Although the initial coders did not identify any major themes of signs and symptoms of MI that on their own lineup with those of the Drescher et al. (2011) study, it should be noted that, in combination, the major themes employment or education,

symptoms indicative of trauma, and symptoms indicative of mood disorder were similar to the major theme psychological symptoms as depicted by Drescher et al. (2011). More specifically, the exemplars depression, anxiety, and occupational dysfunction from within the major theme, psychological symptoms, from the Drescher et al. (2011) study were in line with the major themes identified by coders from the present study.

Nevertheless, the principle investigator and members of the dissertation lab discerned that a variety of veteran responses reflected similar thematic ideals as those from the Drescher et al. (2011) study. Therefore, further analyses were conducted upon these phrases for the purpose of comparison with the signs and symptoms of MI from the Drescher et al. study. More specifically, veteran responses that reflected MI ideology were recoded for MI using the same coding scheme for signs and symptoms from the Drescher et al. study on a per-question basis.

In terms of the first question, "In what ways has the Vietnam War affected your everyday life?" 12 veterans (E=12%) responded with 13 statements (F=6%) that revealed signs and symptoms of MI. Loss of trust or a sense of betrayal was indicated in six statements (F=3%) from six veterans (E=7%). Self-deprecation was indicated in five statements (F=3%) from four veterans (E=5%). A solitary veteran (E=1%) responded with a singular statement (F=1%) that was indicative of spiritual/existential issues. Additionally, one statement (F=1%) from one veteran (E=1%) indicated psychological symptoms. Social problems were not indicated amongst these responses. For a complete listing of question one MI responses and their associated code, please refer to Table 4. Frequencies and extensiveness for each code are indicated in Table 1.

With regard to the second question, "And, what were some of the negative things?" 28 veterans (E=30%) replied with 34 responses (F=22%) which revealed signs and symptoms of MI. Twelve statements (F=8%) from 12 (13%) veterans indicated loss of trust or a sense of betrayal. Although 10 veterans (E=11%) reported them, spiritual/existential issues were also reported in 12 statements (F=8%). Psychological symptoms were indicated in five responses (F=3%) from five veterans (E=5%). Social problems were indicated in three responses (F=2%) from two veterans (E=2%). Lastly, self-deprecation was indicated in two statements (F=1%) from one solitary veteran (E=1%). For a complete listing of question two MI responses and their associated code, please refer to Table 5. Frequencies and extensiveness for each code are listed in Table 2.

Discussion

As one of three related studies undertaken by Dr. David Foy's Trauma Research Lab which cumulatively attempted to enhance the validity of the MI construct (see Appendix A), this exploratory study utilized a nationally representative sample of veterans to investigate if the current understanding of MI could be corroborated by primary source material (e.g. veteran accounts). The goal of this particular study was to ascertain if the functional impairments reported by Vietnam, combat veterans included thematic signs and symptoms of MI related to those conceptualized by Drescher et al. (2011).

Although blind coders were employed initially to generate major themes from the data on a per-question basis, they were not able to generate major thematic categories that

matched up well with the major thematic signs and symptoms of MI from the Drescher et al. (2011) study. There may have been several reasons for this outcome. For instance, the coders, who were masters and doctoral level research assistants, were not trauma experts. As a result, coders may not have been able to make the conceptual distinction between present MI symptomatology and other signs and symptoms among the responses. Barriers to their success may have included the low prevalence of MI responses within the overall sample, the phenomenon that MI responses also included other concepts, and/or the general inexperience of the coders themselves.

Nevertheless, the principle investigator and dissertation lab members came to a consensus that 43 responses across the two questions were indicative of MI. These responses were recoded for signs or symptoms of MI utilizing the coding scheme from the Drescher et al. (2011) study. The results revealed that all themes from this coding scheme were present within the examined NVVRS data, and no new thematic signs or symptoms of MI were generated.

Thus, overall findings were consistent with those of Drescher et al. (2011), and add to the validity of MI as a construct. In the context of both studies, the themes put forth by Drescher et al. were qualitatively observable not only within the secondary report of expert opinion, but also within the primary report of Vietnam veterans themselves. While these results do not represent an increase the breadth of symptom parameters associated with MI, they do enhance the validity of the themes currently in use in that they were shown to be useful descriptors of MI in additional contexts.

With regard to the MI responses themselves, it is important to note that although MI responses were relatively sparse in terms of overall response frequency, the fact that MI responses were observable at all points to the enduring nature of signs and symptoms associated with MI. As it is probable that a portion of participants resolved their MI symptomatology prior to NVVRS data collection, it should be noted that additional signs or symptoms of MI may have been observed in veteran responses if interviews had been conducted closer to the end of their wartime military service.

In terms of more specific implications, the collective findings point toward the idea that wartime experience has a significant impact upon how MI symptomatology is developed. In fact, within the data of the present study, the Vietnam War clearly had a unique impact upon the type of MI signs and symptoms that were ingrained within its veterans. This unique impact was observable in regards to both frequency and extensiveness of MI themes. More specifically, the frequency and extensiveness of the two themes loss of trust or a sense of betrayal and spiritual/existential issues, in each case, were double, or nearly double, that of the other MI themes. The sociopolitical context surrounding Vietnam, and the unique style of guerrilla warfare associated with this war were undoubtedly factors that attributed to these findings. With regard to the Drescher et al. (2011), the heightened prevalence of the theme loss of trust or a sense of betrayal amongst the findings was particularly significant given the fact that it was the theme least mentioned by experts in the Drescher et al. study. The fact that this theme was the most ubiquitous in the current study also suggest that fundamental differences

may exist between the average wartime experience, and the unique experience of Vietnam.

The findings of the current study also displayed significance in that guilt and shame were readily observable amongst MI responses in the form of the theme self-deprecation. With regard to MI as a construct, these findings suggest that guilt and shame are important psychologically associated traits. If one feels that he or she has done wrong, then he or she may feel culpable for his or her action or inaction, and/or feel that his or her action or inaction has disgraced or dishonored themselves or others. Since it is inherent that an individual must possess, and violate a moral framework in order to experience wrongdoing, one might argue that lingering feelings of culpability, disgrace, or dishonor are salient indicators that a MI has occurred.

In terms of the big picture, overall findings advocate for the idea that it is necessary to expand the current conceptualization of trauma to include MI. Since many of the replicated themes within this qualitative study fall outside the purview of the diagnostic criteria for PTSD, they indicate that unique sets of reactions to traumatic experiences exist, including those that occur when person's moral framework has been violated. In this way, this study serves as further evidence of the construct validity of MI.

Limitations

One limitation of the current study was that it relied upon NVVRS archival data that was not intended to be used in the examination of the current construct under scrutiny. As a result, questions may not have been asked in a manner that facilitated identification of all associated thematic constructs. More specifically, the

questions themselves inherently pulled for over inclusive responses as they did not ask veterans to specifically describe their symptoms that resulted from participation in combat during the Vietnam War. Another limitation of the current study was that in relying on NVVRS data, it also relied upon self-report data, which inherently included self-report bias. For example, due to associated stigma, participants in the NVVVRS may not have felt sufficiently comfortable to report their actual symptoms to interviewers.

There are also several limitations associated with the choice of a primarily indirect approach to qualitative content analysis. For instance, while the use of blind coders reduced the effects of possible prejudice on the findings, they also lacked any understanding of morally injurious signs and symptoms, and thus, may have failed to develop a complete understanding of the data. Thus, findings may not have accurately reflected the concept of MI.

Relatedly, while coders were blind to existing theory of MI, they were not blind to the current diagnostic criteria of the DSM-IV-TR. As a result, existing diagnostic criteria may have biased coders to produce codes that were influenced by the DSM-IV-TR. The possible occurrence of such a phenomenon may help to explain aspects of the coders' categorization strategy. In other words, coders may have used categories from the DSM-IV-TR as guidelines upon which they built their codes. For example, the major thematic categories symptoms indicative of trauma and symptoms indicative of mood disorder are categories that are similar to certain anxiety and mood disorder Axis I categorization schemes from the DSM-IV-TR. Additionally, the themes attitude, personality, or

character change and interpersonal relationships not only contained content which was consistent with Axis I symptomatology, but also Axis II conceptualizations for certain personality disorders. Since coders consisted of psychology graduate students at both the masters and doctoral level, such a possible overreliance upon DSM-IV-TR criteria might suggest that treating professionals need to become better versed in the identification of symptom presentations that lie outside of the scope of the traditional bio-psycho-social model- including those associated with moral and ethical dilemmas. Needless to say, in clinical cases where possible MI is observed, proper identification of MI symptomatology is an important part of the treatment process. For instance, possible MI reactions, such as spiritual/existential issues, stress how important it is that clinicians not only expand upon the current bio-psycho-social model, but also include bio-psycho-social-spiritual aspects of mental health functioning.

There may also have been limitations associated with the deductive aspects of this particular qualitative approach. Although coders were blind to the thematic signs and symptoms of MI from the Drescher et al. (2011) study, the principle investigator and dissertation lab members approached the data with informed thought when assigning subthemes. As a result of this approach, inherent bias may have occurred. In other words, researchers may have been more apt to find evidence that was supportive rather than non-supportive of the previous theory, possibly blinding them to other contextual aspects of the phenomenon.

A final limitation exists in that the study specifically examined the responses of Vietnam Veterans who served within the warzone and experienced traumatic experiences there. Thus, the results elicited should not be generalized to other populations, such as Vietnam Veterans who experienced symptoms of MI as a result of traumatic experiences that occurred outside the context of the combat within the Vietnam War, women, or veterans of other wars.

Future Research

While this study represents advancement in the development of symptom or problem parameters of MI, clearly more research is needed. Future studies investigating MI utilizing different populations in a variety of contexts are important to the continued development of the construct. For example, accounts of survivors of domestic violence should be qualitatively examined for unique signs and symptoms of MI. Additionally, a reliable and valid measure should be developed that accurately accesses for exposure to MI events and signs and symptoms of MI. Lastly, interventions should be developed or amended and then tested in order to discern viable treatments for MI symptomatology.

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TABLE 1

Combat Veteran Responses to Question 1

Table 1.

Combat Veteran Responses to Question 1

	Combat Veteran Responses to Question 1								
Code	Extensiveness	Percentage	Frequency	Percentage					
A MARKAN I D. F.	(E)	2.10/	(F)	1.40/					
ATTITUDE,	20	24%	27	14%					
PERSONALITY, OR									
CHARACTER									
CHANGE									
Negative attitude or	-	-	-	-					
behavior shifts									
Changes in self-	-	-	-	-					
perception									
Changes in attitudes	-	-	-	-					
toward others									
Undifferentiated	-	-	-	-					
attitude, personality, or									
character change									
DEATH, INJURY, OR	14	17%	19	10%					
PHYSICAL HEALTH									
Illness or injury	-	-	-	-					
sustained during									
combat									
Enduring health	-	-	-	-					
complications									
Family or friends	-	-	-	-					
wounded or killed									
Thoughts or emotions	-	-	-	-					
related to death									
Instances of negative	-	-	-	-					
coping									
EMPLOYMENT OR	12	14%	18	9%					
EDUCATION									
Disruptions in career or	-	-	-	-					
education									
Negative long-term	-	-	-	-					
career effects									
Positive long-term	-	-	-	-					
career effects									
Undifferentiated long-	-	-	-	-					
term career effects									

(continued)

Code	Extensiveness (E)	Percentage	Frequency (F)	Percentage
Comments regarding	-	-	-	-
time served in the				
military				
GOVERNMENT,	16	19%	19	10%
POLITICS, OR MEDIA				
Negative shifts in view	-	-	-	-
of the government				
Positive shifts in view of	-	-	-	-
the government				
Undifferentiated shifts	-	-	-	-
in view of the				
government				
Expressions related to	-	-	-	-
feeling let down or				
failed by the				
government, military, or				
U.S. public				
Criticisms of	-	-	-	-
governmental policy				
Increased political	-	-	-	-
awareness			-	
INTERPERSONAL	18	21%	26	14%
RELATIONSHIPS				
Effects upon	-	-	-	-
communication about				
war				
Feeling rejected or	-	-	-	-
misunderstood by others				
Shame	-	-	-	-
Loss of interpersonal	-	-	-	-
relationship(s)				
Gains in relationship or	-	-	-	-
group				
Changes in interactions	-	-	-	-
with others				
Changed view of	-	-	-	-
relationship				
Undifferentiated,	-	-	-	-
interpersonal				
relationships				

Code	Extensiveness (E)	Percentage	Frequency (F)	Percentage
SYMPTOMS INDICATIVE OF TRAUMA	15	18%	27	14%
Social isolation/avoidant symptoms	-	-	-	-
Re-experiencing symptoms	-	1	1	-
Symptoms of increased arousal	-	-	-	-
Guilt	-	-	-	-
SYMPTOMS INDICATIVE OF MOOD DISORDER	4	5%	5	3%
Sorrow or depressed mood	-	-	-	-
Irritability, anger, or hostility	1	1	1	1
UNDIFFERENTIATED REACTION TO WAR	26	31%	32	17%
Experiences in Vietnam	-	-	-	-
Emotions or thoughts related to wartime which were insufficient for diagnosis	-	-	-	-
Denial, suppression, repression, or statements indicating no effect	-	-	-	-
Suggesting life changing, character changing, or character defining aspects (undifferentiated)	-	-	-	-
General or undifferentiated responses, nondescript valence	-	-	-	- (continued)

Code	Extensiveness	Percentage	Frequency	Percentage
	(E)		(F)	
General or	-	-	-	-
undifferentiated				
responses, negative				
valence				
POSITIVE IMPACT	11	13%	18	9%
Positive emotions or	-	-	-	-
behaviors				
Enhanced self-esteem	-	-	-	-
Enhanced coping	-	-	-	-
Enhanced appreciation	-	-	-	-
for life				
Enhanced knowledge or	-	-	-	-
life experience				
MORAL INJURY	12	14%	13	7%
Loss of trust or a sense	6	7%	6	3%
of betrayal				
Self-deprecation	4	5%	5	3%
Spiritual/existential	1	1%	1	1%
issues				
Psychological	1	1%	1	1%
symptoms				
Social problems	-	-	-	-
*Capitalized=major	-	-	-	-
thematic category;				
italicized=subtheme				

(Subjects *N*=84) (Responses *N*=191)

TABLE 2

Combat Veteran Responses to Question 2

Table 2.

Combat Veteran Responses to Question 2

Combat Veteran Responses to Question 2				
Code	Extensiveness (E)	Percentage	Frequency (F)	Percentage
ATTITUDE,	9	10%	10	6%
PERSONALITY, OR				
CHARACTER				
CHANGE				
Negative attitude or	-	-	-	-
behavior shifts				
Changes in attitudes	-	-	-	-
toward others				
DEATH, INJURY, OR	30	33%	38	24%
PHYSICAL HEALTH				
Illness or injury	-	-	-	-
sustained during				
combat				
Enduring health	-	-	-	-
complications				
Family or friends	-	-	-	-
wounded or killed				
Thoughts or emotions	-	-	-	-
related to death				
Instances of negative				
coping				
EMPLOYMENT OR	4	4%	4	3%
EDUCATION				
Disruptions in career or	-	-	-	-
education				
Negative long-term	-	-	-	-
career effects				
Undifferentiated long-	-	-	-	-
term career effects				
Comments regarding	-	-	-	-
time served in the				
military				
GOVERNMENT,	29	32%	30	19%
POLITICS, OR MEDIA				
Negative shifts in view	-	-	-	-
of the government				

Code	Extensiveness (E)	Percentage	Frequency (F)	Percentage
Undifferentiated shifts	-	-	-	-
in view of the				
government				
Expressions related to	-	-	-	-
feeling let down or				
failed by the				
government, military, or				
U.S. public				
Criticisms of	-	-	-	-
governmental policy				
Criticisms of the media	-	-	-	-
INTERPERSONAL	19	21%	25	16%
RELATIONSHIPS				
Feeling rejected or	-	-	-	-
misunderstood by others				
Loss of interpersonal	-	-	-	-
relationship(s)				
Changes in interactions	-	-	-	-
with others				
Changed view of	-	-	-	-
relationship				
Undifferentiated,	-	-	-	-
interpersonal				
relationships	1.0	170/	21	120/
SYMPTOMS	16	17%	21	13%
INDICATIVE OF				
TRAUMA				
Social	-	-	-	-
isolation/avoidant				
symptoms				
Re-experiencing	-	-	-	_
Symptoms of in anguard				
Symptoms of increased	-	-	-	_
arousal Guilt				
	-	-	-	-
Undifferentiated	-	-	-	_
symptoms indicative of trauma				
<i>Hauma</i>				

Code	Extensiveness (E)	Percentage	Frequency (F)	Percentage
SYMPTOMS INDICATIVE OF MOOD DISORDER	4	4%	5	3%
Sorrow or depressed mood	1	-	-	-
Feelings of helplessness	-	-	-	-
UNDIFFERENTIATED REACTION TO WAR	21	23%	24	15%
Experiences in Vietnam	-	-	-	-
Denial, suppression, repression, or statements indicating no effect	-	-	-	-
Suggesting life changing, character changing, or character defining aspects (undifferentiated)	-	-	-	-
General or undifferentiated responses, nondescript valence	•		-	-
General or undifferentiated responses, negative valence	-		J	-
MORAL INJURY	28	30%	34	22%
Loss of trust or a sense of betrayal	12	13%	12	8%
Spiritual/existential issues	10	11%	12	8%
Psychological symptoms	5	5%	5	3%
Social problems	2	2%	3	2%
Self-deprecation	1	1%	2	1%
*Capitalized=major thematic category; italicized=subtheme (Subjects N=92)	-	-	-	-

(Subjects *N*=92) (Responses *N*=157)

TABLE 3

Outline/ Exemplars of Combat Veteran Responses to Questions 1 & 2

Table 3.

Outline/ Exemplars of Combat Veteran Responses to Questions 1 & 2

Outline/ Exemplars of Co	mbat Veteran Responses to Questions 1 & 2
Code	Exemplar
ATTITUDE,	-
PERSONALITY, OR	
CHARACTER	
CHANGE	
Negative attitude or	IT'S MADE ME BITTER
behavior shifts	
Changes in self-	I'M A LOSER NOW I WANTED US TO WIN THE WAR
perception	& WE DIDN'T
Changes in attitudes	IT HAS MADE ME MORE CYNICAL
toward others	
Undifferentiated	ATTITUDE IN GENERAL THAT'S IT
attitude, personality, or	
character change	
DEATH, INJURY, OR	-
PHYSICAL HEALTH	
Illness or injury	I WAS WOUNDED
sustained during combat	
Enduring health	AND PHYSICALLY IT RUINED ME
complications	
Family or friends	LOSS OF THE PEOPLE YOU WERE IN COMBAT WITH
wounded or killed	FRIENDS
Thoughts or emotions	I FEEL SORROW FOR THE DEAD AND INJURED
related to death	VETERANS
Instances of negative	LED ME TO DRINK TOO MUCH
coping	
EMPLOYMENT OR	-
EDUCATION	
Disruptions in career or	IT INTERUPPED MY CAREER PROGRESSION
education	
Negative long-term	I WAS UNABLE TO ACHIEVE GOALS I HAD
career effects	VIEW DEED AND THE ADDRESS DAY AD ANAL GROWTH
Positive long-term	HELPED ME TO BE A BETTER PHARAMACIST
career effects	CAUSE I WAS A CORP MAN IN NAVY
Undifferentiated long-	I WOULDN'T BE DOING TODAYS OCCUPATION
term career effects	THE OVER A DOLL DUM BY MILE GERMANE THE THE TANK THE
Comments regarding	THE 9 YEARS I PUT IN THE SERVICE THE VIETNAM
time served in the	WAR WAS AT THE END OF IT
military	

Code	Exemplar
GOVERNMENT, POLITICS, OR MEDIA	
Negative shifts in view of the government	A LACK OF TRUST OF GOVERNMENT AND OR ESTABLISHMENTS
Positive shifts in view of the government	MADE ME APPRECIATE MY COUNTRY MORE THAN I PROBABLY WOULD HAVE
Undifferentiated shifts in view of the government	IT'S CHANGED MY ATTITUDE TOWARD GOVERNMENT
Expressions related to feeling let down or failed by the government,	FEELING THAT THE GOVERNMENT DIDN'T REALLY CARE ABOUT US OVER THERE
military, or U.S. public Criticisms of governmental policy	WHAT IS NEGATIVE IS IT WAS OF NO STATIGIC IMPORTANCE TO WORLD PEACE TO BE THERE AND TO MAKE AMERICAN
Increased political awareness	MORE AWARE OF THE INTERNATIONAL SITUATION GOING FROM DAY TO DAY
Criticisms of the media	THE MEDIA THE DISSOLUSIMENT OF HOW THE MEDIA BROADCAST IT TO THE UNITED STATES
INTERPERSONAL RELATIONSHIPS	-
Effects upon communication about war	I GET A LOT OF QUESTIONS ABOUT IT
Feeling rejected or misunderstood by others	NOBODY UNDERSTANDS
Shame	I GET HESITANT ABOUT ADMITTING I WAS OVER THERE
Loss of interpersonal relationship(s)	WELL WHEN I LEFT I WAS MARRIED AND WHEN I CAME BACK I HAD LOST MY WIFE
Gains in relationship or group	BEING IN THE VETERANS GROUPS.
Changes in interactions with others	MY WIFE AND FAMILY TELL ME I'VE CHANGED
Changed view of relationship	IT CHANGE THE WAY I FEEL ABOUT OTHERS
Undifferentiated, interpersonal relationships	THE DIFFERENT PEOPLE LIFESTYLES COMPARED TO OUR OWN

Code	Exemplar
SYMPTOMS	-
INDICATIVE OF	
TRAUMA	
Social isolation/avoidant	I'M OVER PROTECTIVE OF MY PERIMETER I BUILD
symptoms	THE TALLEST FENCE I CAN AND ALARM SYSTEMS I
	FIND MYSELF
Re-experiencing symptoms	BASICALLY I HAVE A LOT OF NIGHTMARES
Symptoms of increased	I'M NEVER ABLE TO FULLY RELAX
arousal	
Guilt	MAYBE GUILT ABOUT LIVING WHEN OTHERS
	AREN'T LIVING
Undifferentiated,	IT RUINED MY HEALTH MENTALLY
symptoms indicative of	
trauma	
SYMPTOMS	-
INDICATIVE OF MOOD	
DISORDER	LI BJE WITH THE CODDOW EVEDY DAY
Sorrow or depressed mood	I LIVE WITH THE SORROW EVERY DAY
Irritability, anger, or	I GET MAD EASIER AND
hostility	A LIEUDI EGGNIEGG MEANI
Feelings of helplessness	A HELPLESSNESS MEAN
UNDIFFERENTIATED REACTION TO WAR	-
	BEING OVER THERE IN IT
Experiences in Vietnam	I THINK ABOUT IT NOW AND THEN IT SEEMS TO BE
Emotions or thoughts related to wartime which	SOMETHING THAT HAS STAYED WITH ME AND I
were insufficient for	HAVE NOT FORGOTTEN EVEN THOUGH THE
diagnosis	HAVE NOT FORGOTTEN EVEN THOUGH THE
Denial, suppression,	I DIDN'T COME BACK WITH ANY NEGATIVE THINGS
repression, or statements	(THINK) CAN'T THINK OF ANYTHING NEGATIVE
indicating no effect	(TIMAK) CANAT TIMAK OF ANATTIMAG ALGARITAL
Suggesting life changing,	IT'S THE BASIS OF WHAT EVERYTHING I DO IS
character changing, or	BASED ON MY EXPERIENCE IN VIETNAM
character defining aspects	
(undifferentiated)	
General or	THE WHOLE INVOLVEMENT
undifferentiated responses,	·
nondescript valence	

Code	Exemplar
General or	IT DIDN'T HELP ME A DIDDLY SHIT
undifferentiated responses,	
negative valence	
POSITIVE IMPACT	-
Positive emotions or	THE THING I WENT THROUGH I THINK MADE ME A
behaviors	BETTER PERSON
Enhanced self-esteem	SENSE OF APPRECIATION OF SELF
Enhanced coping	COPE WITH PEOPLE A LITTLE BIT BETTER
Enhanced appreciation for	IN GENERAL IT'S MADE ME MORE APPRECIATIVE
life	OF LIFE
Enhanced knowledge or	GAIN KNOWLEDGE
life experience	
*Capitalized=major	-
thematic category;	
italicized=subtheme	

TABLE 4

Combat Veteran MI Responses to Question 1

Table 4. Combat Veteran MI Responses to Question 1

Combat Veteran MI Responses to Question 1				
MI Code	Veteran ID#	Response		
Loss of trust or a sense of betrayal	N=6	N=6		
feelings of betrayal by U.S. public	113811	WHEN I CAME BACK I		
		WASN'T A HERO AND		
		COMING INTO AN AIRPORT		
		IN		
feelings of betrayal by government	115220	AS FAR AS THE		
		GOVERNMENT GOES I FEEL		
		LIKE YOU CAN'T REALLY		
		TRUST THE GOVERNMENT		
		TO TELL YOU WHAT'S GOING		
		ON LIKE WITH TH		
feelings of betrayal by government	115998	NAM HAS TAUGHT ME THAT		
		EVERYONE CAN FAIL EVEN		
		THE GOVERNMENT AS POWE		
failure to live up to one's own	116095	THAT WE WERE WRONG		
moral standards				
feelings of betrayal by government	132134	THEY NEVER DID ANYTHING		
		TO HELP ME REAJUST		
feelings of betrayal by U.S. public	132514	I HAD TROUBLE GETTING A		
		JOB BECAUSE I WAS A		
		VIETNAM VET		
Self-deprecation	N=4	N=5		
guilt	116772	I DON'T FEEL GOOD ABOUT		
		IT		
guilt	132597	I FEEL THAT I HAD NO		
		BUSINESS OVER THERE		
shame	151829	IT'S TOUGH ENOUGH TO		
		ADMIT WRONGS BUT FOR A		
		WRONG THAT RESULTS		
		FROM A CAUS		
feeling damaged	156869	I'M A LOSER NOW I WANTED		
		US TO WIN THE WAR & WE		
		DIDN'T		
shame	156869	HOW CAN YOU EVER		
		EXPLAIN THAT TO YOUR		
		KIDS OR ANYONE		
Spiritual/existential issues	N=1	N=1		
giving up or questioning morality	117093	MADE ME QUESTION MY		
		VALUES		

MI Code	Veteran ID#	Response
Psychological symptoms	N=1	N=1
anger	133173	IT MADE ME AWARE OF HUMAN RIGHTS THAT WERE BEING MISUSED OVER THERE IN VIETNAM
Social problems	N=0	N=0
-	none	none
*Italicized=major thematic category from Drescher et al. (2011); non-italicized=exemplar	-	-

(Subjects N=12) (Responses N=13)

TABLE 5

Combat Veteran MI Responses to Question 2

Table 5.

Combat Veteran MI Responses to Question 2

Combat Veteran MI Responses to Qu MI Code		Dagnongo
	Veteran ID#	Response
Loss of trust or a sense of betrayal	N=12	N=12
feelings of betrayal by U.S. public	110700	THIS COUNTRY TURNED ITS
		BACK ON THE GRUNTS WE
feelings of betrayal by government	118083	MALARKEY THAT WENT ON
		WITH OUR GOVERNMENT
		LIKE WE'D BE GETTING FIRE
		AND THEY WOULDN'T GIVE
		US THE OK
feelings of betrayal by government	132787	I DONE MY PART; THEY
		DIDNT DO THEIR PART I'M
		OUT HERE AND
		UNEMPLOYED UNCLE SAM'S
		GOT MONEY AND JOBS
feelings of betrayal by government	150573	TO SEE HOW THE
		GOVERNMENT CAUSED A
		LOT OF UNNECESSARY LIFE
		LOSS SINCE THEY HAVEN'T
		DONE ANYTHING ABO
feelings of betrayal by government	151134	FEELING THAT THE
		GOVERNMENT DIDN'T
		REALLY CARE ABOUT US
		OVER THERE
feelings of betrayal by U.S. public	153064	I FELT AS THEOUGH THE
		AMERICAN PEOPLE DIDN'T
		FEEL WE WERE DOING
		ANYTHING LIKE THAT OVER
		THERE JUST T
feelings of betrayal by military	154401	AFTER SPENDING A LOT OF
		TIME IN THE SERVICE I WAS
		FORCED OUT & IT AFFECTED
		MY FITNESS REPORT AND
		OUT
feelings of betrayal by U.S. public	154823	THE FEELING THE LACK OF
		CARING FOR US FORM THE
		AMERICAN PEOPLE
feelings of betrayal by government	155903	THAT THE GOVERNMENT
		WASN'T MUCH HELP IN
		SOLVING THE VIETNAM
		SITUATION (P) (Prompted)

MI Code	Veteran ID#	Response
feelings of betrayal by government	156729	I DON'T THINK IT SHOULD
		HAVE ENDED THAT WAY WE
		SHOULDN'T HAVE PULLED
		OUT IF OUR GO
feelings of betrayal by	156836	THE ARMY OR
government/military		GOVERNMENT DIDN'T HAVE
		ANYONE WE COULD TALK
		TO TO GET THIS CRAP OUT IN
		THE OPEN PEOPLE P
feelings of betrayal by peers	450445	WALK IN TO A VFW HALL
		AND BE REJECTED IT
		TITALLY RUNIED
Spiritual/existential issues	N=10	N=12
giving up or questioning morality	116095	SAW INTERCOURSE WITH
		DEAD GIRLS & WOMEN
		CHILDREN TO YOUNG TO
		THINK & PRO
anguish	131623	THE BIGGEST THING WAS
		BEING FORCED TO DO
		SOMETHING I WAS OPPOSED
		TO
profound sorrow	133595	THE SACRIFICE OF SOME OF
		THE YOUNG M
profound sorrow	134353	ALL THE YOUNG MEN
		LOSING THEIR LIVES SOME
		BEFORE THEY WERE EVEN 20
profound sorrow	151134	WASTE OF LIFE
giving up or questioning morality	151829	WHAT IS NEGATIVE IS IT
		WAS OF NO STATIGIC
		IMPORTANCE TO WORLD
		PEACE TO BE THERE AND TO
		MAKE AMERICAN
spiritual conflict	152942	BEING INVOLVED IN THE
		ACTUAL KILLING AND
spiritual conflict	152942	BURNING HOMES
spiritual conflict	152942	DESTROYING FAMILIES
profound sorrow	156398	A LOT OF SENSELESS
		DEATHS

MI Code	Veteran ID#	Response
profound sorrow	157156	THE WASTE OF ALL THE
		GOOD YOUNG MEN WE LOST
Psychological symptoms	N=5	N=5
anger	110536	TWO YEARS WASTED
anger	117093	DISAPPOINTED THAT WE
		DIDNT KICK THERI ASS LIKE
		WE SHOULD HAVE VIETNAM
anger	135319	THE ONLY NEGATIVE THING
		I HAVE TO SAY ABOUT VIET
		NAM MY LAST TOUR WAS A
		WASTE OF TIME
anger	153924	SOME WHAT BITTER ABOUT
		NOT FINISHING THE JOB WE
		STARTED TO DO WE
		WEREN'T ALLOWED TO WIN
anger/denial	156869	NONE JUST WANTED TO WIN
		THE WAR & WE DIDN'T
Social problems	N=2	N=3
sociopathy	150151	THE REVERSE OF
		APPRECIATION OF LIFE
problems fitting in	450445	REJECTION BY FAMILY AND
problems fitting in	450445	FRIENDS
Self-deprecation	N=1	N=2
guilt	113811	IT GIVES ME A GUILT
		FEELING
guilt	113811	BY NOT BEING ABLE TO BE A
		COMBAT SOLDIER
*Italicized= major thematic	-	-
category from Drescher et al.		
(2011); non-italicized=exemplar		

(Subjects *N*=28) (Responses *N*=34)

APPENDIX A

Statement of Related Dissertation Studies

Military combat involves a diversity of stressors that can affect service members in varying ways. To broaden the understanding of moral aspects of combat trauma experiences, Litz et al. (2009) introduced moral injury (MI), defined as acts that transgress deeply held moral beliefs and expectations. Drescher et al. (2011) recently conducted a qualitative examination of relationships between frequent combat experiences and expected moral consequences through military experts' judgments. Overall, Drescher et al. (2011) identified four major themes of potentially morally injurious events, including betrayal, disproportionate violence, incidents involving civilians, and with-in rank violence. In addition, social problems, trust issues, spiritual/existential issues, psychological symptoms, and self-deprecation were identified as thematic categories that may be signs or symptoms of MI.

The present dissertation (Kraus, 2012) was conducted as one of three related studies within a research lab in order to provide further empirical support for the MI construct. Therefore, it is recommended that the three studies be considered as a set and that the findings be interpreted together. The first study entitled "Themes of Moral Injury in Trauma Experiences of Vietnam Combat Veterans: A Qualitative Examination of the NVVRS" was conducted by Alison Flipse Vargas (2012). Vargas (2012) examined traumatic events reported by 100 Vietnam combat veterans from the NVVRS. Each participant was asked about any extraordinarily stressful events that they may have experienced, and their responses were coded for themes. Although the initial coding did not identify MI as a major theme, 15 responses from 14 individuals were identified as being potentially morally injurious events. To compare MI in combat versus non-combat

veterans, a second study entitled "Themes of Trauma and Morally Injurious Events among Non Combat Veterans: A Qualitative Examination of the NVVRS" was completed by Thomas Hanson (2012). Hanson (2012) followed the same methodology as Vargas (2012) with the exception of utilizing the non combat veterans and twice as many participants (N=200). Consistent with Vargas (2012), MI was not identified as a major theme following the initial coding. Conversely, only two responses from two participants were indicative of potentially morally injurious events.

The third study, entitled "Morally Injurious Symptomatology: A qualitative examination for themes found in the NVVRS" by Douglas Kraus (2012), examined the same sample of combat veterans as Vargas (2012) but explored signs and symptoms of MI. Kraus (2012) focused on coding themes of participants responses to the questions: "In what ways has the Vietnam War affected your everyday life?" and "And, what were some of the negative things?" Although MI was not identified as a major theme during the initial coding, 43 signs and symptoms of MI were reported. The findings of the three studies extend the operational understanding and provide validation for the construct of MI. Most significantly, no additional themes of MI were identified suggesting that Drescher et al. (2011) provided a comprehensive list of themes associated with MI.

APPENDIX B

Literature Review Table

Study	Population	Purpose	Analyses/Measures	Overview of Results
Bandura	N/A.	To discuss	Theoretical	The interchange
(1999)		Moral	manuscript;	between moral
		Agency,	illustrates the types	disengagement, pro-
		Moral	of Moral	social behavior,
		Disengage-	Disengagement and	aggression proneness,
		ment, and	outlines the	delinquent behavior,
		Moral	theoretical	and guilt and
		Justification.	cognitive	restitution is
			mechanisms	illustrated; as is the
			associated with it.	interplay between
				personal and social
				sanctions upon moral
				agency/
				disengagement.
Bandura	N/A.	To review	Theoretical	"'More hideous
(2002)		Moral	manuscript; Review	crimes have been
		Agency,	of Types of	committed in the
		Moral	Selective Moral	name of obedience,
		Disengage-	Disengagement and	than in the name of
		ment, and	their causes.	rebellion."
		Moral		
D 11	77'	Justification.	0 '' '	Г. 1
Beckham,	Vietnam	To examine	Quantitative,	Endorsement of
Feldman &	combat	the	descriptive,	atrocities was related
Kirby	veterans	connection	multiple regression	to PTSD symptom
(1998)	(N=151) with	between	analyses. Measures utilized: Atrocities	severity, re-
	chronic	exposure to an	Exposure Subscale,	experiencing, global guilt, guilt cognitions,
	PTSD.	atrocity and PTSD	Davidson Trauma	and measures
	1130.	symptoms,	Scale (DTS),	assessing for
		guilt, and	Trauma-Related	hindsight
		interpersonal	Guilt Inventory	bias/responsibility
		violence.	(TRGI),	and wrongdoing.
		, ioioiico.	Interpersonal	una wrongaoing.
			Violence from the	
			Overall Violence	
			Index (OVI).	

Study	Population	Purpose	Analyses/Measures	Overview of Results
Centers for	2490	To investigate	Quantitative;	Depression, anxiety,
Disease	Vietnam	the health	multivariate	and alcohol abuse or
Control	veterans	status of	analyses using	dependence were
Vietnam	and 1972	Vietnam	logistic regression.	elevated for Vietnam
Experience	non-	veterans.	Psychological	veterans. Lifetime
Study	Vietnam		health assessed by	prevalence of PTSD
(1988)	veterans.		Diagnostic	was 15% and 2.2%
			Interview Schedule	had the disorder
			(DIS) and	during the month
			Minnesota	before examination.
			Multiphasic	
			Personality	
			Inventory (MMPI).	
Dohrenwen	NVVRS	To address the	Quantitative.	Discussed Vietnam as
d, Turner,	male	controversy	Measures of	a "'War Amongst the
Turse,	Theater	regarding the	probable severity of	People;" Little
Adams,	veterans	NVVRS and	exposure to war-	evidence of
Koenen &	(N=1200	CDC study	zone stressors were	dissembling or more
Marshall	men).	findings.	constructed with	subtle forms of
(2007)			military records and	exaggeration by
			historical accounts	NVVRS veterans.
			(MHM's), and	Differing rates of
			measures of the	PTSD resulted from
			onset and course of	differential criteria
			war-related PTSD	for the disorder.
			derived from	Factored in
			NVVRS clinical	impairment in
			examinations	functioning. PTSD
			(SCID).	improved with time
				(10-11 year period
				after war).

Study	Population	Purpose	Analyses/Measures	Overview of Results
Dohrenwen	The	To investigate	Quantitative,	Black elevation was
d, Turner,	NVVRS	elevated	bivariate	explained by Blacks'
Turse,	subsample	prevalence	associations/Wald	greater exposure; the
Lewis-	of male	rates of	chi-squared/post	Hispanic elevation,
Fernandez	White,	chronic PTSD	hoc pairwise t tests	by Hispanics' greater
& Yager	Black, and	for Black and	of differences in	exposure, younger
(2008)	Hispanic	Hispanic	proportions/logistic	age, lesser education,
	Theater	veterans.	regression analyses.	and lower Armed
	veterans		Utilized Structured	Forces Qualification
	(N=248).		Clinical Interview	Test scores. The
			for DSM-III-R	PTSD elevation in
			(SCID).	Hispanics versus
				Blacks was accounted
				for mainly by
				Hispanics' younger
				age.
Drescher,	Diverse	To provide a	Qualitative,	Results indicated
Foy, Kelly,	group of	first step in	purposeful	strong support for the
Leshner,	health and	the construct	snowball sampling	usefulness of MI as a
Schutz, &	religious	validation of	strategy, interviews	concept; however, the
Litz (2011)	professiona	MI.	with principle	working definition
	ls with		investigator, data	was found to be
	many years		analyzed	inadequate. Themes
	of service		descriptively on a	for MI events and
	to active		per-question basis,	signs and symptoms
	duty		major themes	of MI were
	warriors		coded, frequencies	developed.
	and		and extensiveness	
	veterans		calculated for	
	(N=23).		themes.	

Study	Population	Purpose	Analyses/Measures	Overview of Results
Ford	84 veterans	To determine	Quantitative,	Disorders of extreme
(1999)	seeking	comorbidity	multivariate logistic	stress not otherwise
	inpatient	and	regression analyses.	specified (DESNOS)
	treatment at	differentiation	Measures utilized:	and PTSD found to
	a VA.	of DESNOS	SCID-P (inclusive	be comorbid yet
		and PTSD.	of Westen's Social	distinct among
			Cognition Object	military veterans.
			Relations Scale),	PTSD diagnosis was
			SIDES, Penn	associated with
			Inventory for	elevated levels of
			PTSD, Mississippi	war-zone trauma
			Scale for Combat-	exposure, witnessing
			Related PTSD (M-	atrocities, and
			PTSD), and Impact	impairment on the M-
			of Event Scale	PTSD and Penn
			(IES).	Inventory. DESNOS
				classification (but not
				PTSD) was
				associated with early
				childhood trauma and
				participation in war-
				zone atrocities,
				extreme levels of
				intrusive trauma
				reexperiencing,
				impaired
				characterological
				functioning, and use
				of intensive
				psychiatric services.
				Traumatization was
				distinct from PTSD
				examples when
				variables that looked
				like DESNOS were
				controlled for.
				Atrocity exposure
				was a risk factor for
				DESNOS but not
				PTSD.

Study	Population	Purpose	Analyses/Measures	Overview of Results
Foy, Sipprelle, Rueger & Carroll (1984)	43 Vietnam Era veterans seeking treatment at a VA.	To explore the impact of premilitary, military experience, and combat exposures on PTSD.	Quantitative. Created a combat scale, PTSD scale, and adjustment scale.	Combat exposure & military adjustment are related to PTSD and post military adjustment, which suggests that combat exposure is moderated by concurrent psychosocial support; limitations: data retrospective, there may be a bias in memory; worse military adjustment could be caused by PTSD rather than the other way around.
Hendin & Haas (1984)	10 veterans who did not develop PTSD after intense combat.	To elucidate traits protective and adaptive at preserving emotional stability in unstructured, unstable contexts.	Qualitative, case studies.	Protective traits identified: calmness under pressure, intellectual control, acceptance of fear, and lack of excessively violent or guilt-arousing behavior. Introduced the notion that post combat stress disorders are not so much a function of the objective war zone experience, but rather how those experiences are individually perceived and internalized by combatants.

Study	Population	Purpose	Analyses/Measures	Overview of Results
Henning &	Male	Examine the	Quantitative,	Severity of guilt
Frueh	Veterans	relationship	descriptive,	regarding combat was
(1997)	(N=40)	between the	regression analyses.	positively correlated
	with	development	Utilized the	with re-experiencing
	combat	and	Revised Combat	and avoidance
	related	maintenance	Scale (RCS) to	symptoms of PTSD
	PTSD from	of PTSD with	asses specific	and PTSD severity.
	a VAMC	combat guilt	combat situations;	Researchers propose
	outpatient	in veterans.	M-PTSD for PTSD;	that treatment aim to
	clinic.		The Guilt	treat cognitive-
			Inventory: Trait	emotional issues
			Guilt (TGI-TG);	related to guilt.
			Clinician	
			Administered	
			PTSD Scale	
			(CAPS); and Combat Guilt Scale	
			(CGS).	
Hoge,	OIF/OEF	To provide an	Quantitative,	Exposure to combat
Castro,	veterans	initial look at	descriptive. Self-	high for those
Messer,	(N=6201).	the mental	reported,	deployed to Iraq, who
McGurk,	(11 0201).	health of	anonymous survey	also screened higher
Cotting &		members of	was compared with	for PTSD, depression,
Koffman		the Army and	a 17-item National	and generalized
(2004)		the	Center for	anxiety. Stigma may
		Marine Corps	PTSD Checklist of	be a barrier to
		who were	the Department of	healthcare acquisition
		involved in	Veterans Affairs	for this population.
		combat	and the patient	PTSD was correlated
		operations in	health questionnaire	with combat
		Iraq and	developed by	experiences (i.e.
		Afghanistan.	Spitzer et al.	being shot at,
				wounded or being
				injured).

Study	Population	Purpose	Analyses/Measures	Overview of Results
Hsieh &	N/A.	To describe	Research	Coding schemes,
Shannon		three	methodology;	origins of codes, and
(2005)		approaches to	conventional,	threats to
		qualitative	directed,	trustworthiness are
		content	summative,	presented for each
		analysis.	inductive, and	approach.
			deductive	
			approaches to	
			content analyses.	
Kashdan,	246 male	To explore the	Quantitative;	Diminished appetitive
Elhaib, &	combat	relationships	logistic regression	functioning provided
Frueh	veterans	between	of bivariate	additional
(2006)	who	anhedonia and	relationships.	information above
	presented	PTSD	Anhedonia	and beyond
	to .	symptom	measured by the	symptoms reflecting
	outpatient	clusters,	Beck Depression	negative affect in
	treatment	including	Inventory (BDI);	understanding the
	of combat-	their role in	PTSD measured by	nature and correlates
	related	predicting	the Clinician-	of PTSD.
	PTSD at a	psychiatric	Administered	
	VAMC.	comorbidity.	PTSD Scale	
			(CAPS).	

Study	Population	Purpose	Analyses/Measures	Overview of Results
Kaylor,	67 studies	To integrate	Meta-analysis of 67	Mean effect size,
King &	that	research on	studies.	comparing Vietnam
King	investigated	the		veterans to others
(1987)	the relation between	psychological status of		across a variety of mental health
	military	Vietnam		indicators was
	service in	veterans.		significant-0.53.
	Southeast	veterans.		Vietnam veterans
	Asia and			were significantly
	postmilitary			different from both
	health			Vietnam-era veterans
	utilizing			and nonveterans,
	Vietnam			indicating a
	veterans,			"'Vietnam effect.""
	Vietnam-			
	era			
	veterans,			
	nonveterans			
	ionveterans			
King,	1,632	To assess the	Quantitative,	Four
King,	Vietnam	differential	intercorrelations	conceptualizations of
Gudanows	theatre	influence of a	and structural	war zone stressor
ki &	veterans	variety of war	equation modeling	experiences were
Vreven	from the	zone stressors	procedures.	defined: traditional
(1995)	NVVRS	upon the	Measures utilized:	combat, atrocities-
	(1,200 men	development	Mississippi Scale	abusive violence,
	& 432	of PTSD.	for Combat-Related	perceived threat, and
	women).		PTSD and DIS.	malevolent
				environment. Found that the development
				of PTSD was
				influenced
				differentially
				depending on the type
				of stressor that was
				experienced.

Study	Population	Purpose	Analyses/Measures	Overview of Results
Kubany,	Study 1:	To develop an	Quantitative,	Instrument correlated
Abueg,	N/A. Study	instrument to	multimethod	with measures of
Kilauano,	2: 47	assess guilt	strategy. Measures	guilt, PTSD and
Manke &	Vietnam	related to	utilized: Sources of	Depression. Findings
Kaplan	veterans	particular to	Trauma-Related	confirm that Vietnam
(1997)	and six	involvement	Guilt Survey—	veterans have
	veterans	in war and to	War-Zone	multiple sources of
	from Korea	determine the	Version (STRGS-	severe war-related
	or World	types of	WZ); Personal	guilt. Guilt comes
	War II.	events	Feelings	from inaction and is
	Study 3: six	connected to	Questionnaire	correlated with
	PTSD	trauma related	(PFQ): to assess for	PTSD.
	experts,	guilt.	guilt and shame;	
	several		Guilt Inventory	
	focus		(GI); Trauma-	
	groups, and		related Guilt	
	two PTSD		Inventory (TRGI);	
	counselors.		The Mississippi	
	Study 4: 32		Scale; the PTSD	
	male		Checklist; Impact	
	Vietnam		of Event Scale	
	combat		(IES); Beck	
	veterans		Depression	
	attending		Inventory; Zung	
	residential		Self-Rating	
	treatment at		Depression Scale;	
	the		Rosenberg Self-	
	National		Esteem Scale;	
	Center for		Social Avoidance	
	PTSD in		and Distress Scale;	
	Menlo		and the Single item:	
	Park,		"How often do you	
	California.		experience serious	
	Study 5: 74		thoughts about	
	male		suicide", with five	
	Vietnam		response options	
	veterans		from "Never" to	
	living in		"Very Frequently."	
	Hawaii.			

Study	Population	Purpose	Analyses/Measures	Overview of Results
Kulka,	3016 U.S.	To highlight	N/A; bullet points	The NVVRS is the
Schlenger,	Vietnam	the findings of	listed.	most rigorous and
Hough,	Era	the NVVRS.		comprehensive study
Jordan,	Veterans.			to date of the
Marmar, &				prevalence of PTSD
et al.				and other
(1990)				psychological
				problems in
				readjusting to civilian
				life among Vietnam
				veterans; lifetime
				prevalence of PTSD
				was indicated in
				30.6% of men and
				26.9 % of women;
				NVVRS findings
				indicated a strong
				relationship between
				PTSD and other
				postwar readjustment
				problems; exposure to
				combat increases
				prevalence of PTSD
				and other postwar
				psychological
				problems
				significantly.

Study	Population	Purpose	Analyses/Measures	Overview of Results
Laufer,	350	To develop	Quantitative,	The three elements of
Gallops &	Vietnam	and test a	hierarchical	war trauma had
Frey-	Veterans.	model of war	regression analysis.	different affects upon
Wouters		trauma		postservice
(1984)		containing		psychological states
		three		of veterans. Found
		elements:		that exposure to, or
		combat		participation in,
		experience,		atrocities increase
		witnessing		symptoms throughout
		abusive		the lifespan, and
		violence, and		exposure to
		participation		traditional combat, as
		in abusive		opposed to atrocity
		violence.		exposure, have
				different outcomes on
				mental health. This
				emphasizes the
				importance of
				specifying what
				constitutes "the
				experience" when
				attempting to link
				traumatic events to
				subsequent
				psychological
				patterns.
Lazarus,	100	To closely	Quantitative,	Appraisal process
DeLongis,	community	examine the	comparative	should not and cannot
Folkman &	-residing	problem of	analysis, factor	be removed in the
Gruen	adults (52	confounding	analysis. Measures	measurement of
(1985)	women and	and circularity	utilized: Hassles	psychological stress.
	men) aged	in stress	Scale, Hopkins	Stress presented as a
	45 to 64.	research and	Symptom	complex rubric rather
		provide	Checklist.	than a simple
		associated		antecedent variable.
		data.		

Study	Population	Purpose	Analyses/Measures	Overview of Results
Litz, Stein, Delaney, Lebowitz, Nash, Silva & Maguen (2009)	N/A.	To provide conceptual model of Moral Injury and outline needed research inquiries associated with the concept.	A review of the literature.	Defines moral injury, moral repair, chronic symptoms of MI, and addresses treatment of MI in theory.
MacNair (2002)	NVVRS combat veterans (N=1638).	To examine the impact of killing and perpetration of atrocities on PTSD.	Quantitative, comparison of mean scores. PTSD measured via the M-PTSD, NVVRS atrocity/disproporti onate violence question grouping/scheme, perpetration vs. nonperpetration groups, battle intensity measured via self-rated scale: none, light, moderate, and heavy.	Killing and atrocities were predictive of higher M-PTSD scores. The atrocities group raised the mean of the killing group, yet killing was also significant on its own. Battle intensity was not a viable explanation for increased scores.
Maguen, Metzler, Litz, Seal, Knight & Marmar (2009)	nvvrs male combat subgroup (N=1200) and clinical interview subsample (N=260).	To examine impact of killing on post war mental health outcomes.	Quantitative, multiple regression analyses. Utilized M-PTSD, MMPI- 2's PK scale, DIS diagnosis of depression, PERI traumatic scale, and measures of current violence	Killing in general was associated with PTSD, dissociation, functional impairment, and post war violent behavior. However, a link between killing and a depression diagnosis was not shown.

Study	Population	Purpose	Analyses/Measures	Overview of Results
Maguen	2,797 OIF	To examine	Quantitative,	Even after controlling
(2010)	soldiers	the mental	multiple and	for combat exposure,
	who	health impact	logistic regressions.	killing was a
	presented a	of reported	Postdeployment	significant predictor
	postdeploy-	direct and	screening; PTSD	of PTSD symptoms,
	ment	indirect	assessed by the	alcohol abuse, anger,
	screening	killing among	Primary Care PTSD	and relationship
	from	soldiers	Screen (PC-PTSD);	problems.
	November	returning	depression assessed	
	2005 to	from	by the Patient	
	June 2006.	Operation	Health	
		Iraqi	Questionnaire	
		Freedom.	(PHQ-9); alcohol	
			abuse assessed by	
			the Alcohol Use	
			Disorder	
			Identification Test	
			(AUDIT);	
			hostility/anger	
			assessed by the	
			Dimensions of	
			Anger (DAR).	

Study	Population	Purpose	Analyses/Measures	Overview of Results
Martz,	3,016	To investigate	Quantitative,	Existence of a
Bodner, &	Vietnam	whether	multiple regression	disability
Livneh	veterans	coping	analysis.	significantly and
(2009)	from the	moderated the		negatively predicted
	NVVRS.	association		psychosocial
		between		adaptation after
		disability		controlling for pre-
		status and the		mentioned variables.
		outcome of		Disability and
		psychosocial		adaption were
		adaptation		positively moderated
		while		by problem-solving
		controlling for		coping.
		demographic		
		variables,		
		posttraumatic		
		stress		
		disorder, and		
		environmental		
		conditions		
		and social		
		support.		
McNally	N/A.	To discuss the	A critical review of	Discusses NVVRS
(2006)		controversy	the literature.	and CDC findings
		concerning		related to subsequent
		the		PTSD in Vietnam
		psychiatric		veterans.
		costs of war.		Emphasized that
				Dohrenwend et al.
				found that the
				NVVRS
				overestimated the rate
				of PTSD by 40%.
McNally	N/A.	To critique	A critical review of	Offered other
(2007)		the NVVRS,	the literature.	plausible explanations
		calling into		for the high
		question its		prevalence rate of
		combat		TPSD in the NVVRS.
		related PTSD		
		estimates.		

Study	Population	Purpose	Analyses/Measures	Overview of Results
Schlenger, Kulka, Fairbank, Hough, Jordan, & et al. (2007)	N/A.	To provide perspective on findings reported by Dohrenwend et al. (2006) and McNally (2006).	A review of the literature.	Dohrenwend et al.'s study, which evaluated empirically a variety of the critics' alterative explanations and found little support for any of them, represents a landmark contribution to the trauma field. McNally's commentary misrepresented the history and context of the NVVRS, Dohrewend et al.'s findings, and their importance.
Singer (2004)	A subgroup of Vietnam veterans with PTSD who committed atrocities during their service.	To discuss the origins of atrocities during war, accompanying emotional responses, and associated recommendati ons for treatment.	Qualitative; antidotal/case studies. Discusses the link between war and atrocities; differentiated between shame and guilt; provides recommendations for treatment.	Symptoms associated with atrocities during war: shame, guilt, self-hatred, and a sense of being interminably unforgivable. Inability to express remorse was put forth as a key dynamic in treatment; working through shame, guilt, and self-hatred are fundamental to the expression of remorse.

Study	Population	Purpose	Analyses/Measures	Overview of Results
Suvake,	Stratified	To examine	Quantitative; used	Greater reliance on
Vogt,	random	long-term	factor analysis,	both types of
Savarese,	sample of	general life	descriptive	emotion-focused
King, &	408 (300	adjustment	statistics, zero order	coping in the Vietnam
King	men and	among	or bivariate	warzone were
(2002)	108	Vietnam	correlations, and	associated with lower
	women)	veterans. One	hierarchical	levels of postwar
	from the	particular	multiple regression	long-term general life
	NVVRS.	concern was	analyses. Combat	adjustment. Only at
		the	exposure measure	moderate levels of
		relationship	used the "Vietnam	combat exposure is
		between	Experiences"	problem-focused
		coping	section of the	coping an appropriate
		strategies	NVVRS; coping	and useful strategy.
		used in the	was measured by	
		warzone and	the Ways of Coping	
		the outcomes	Checklist.	
		of		
		achievement,		
		life		
		satisfaction,		
		and lifetime		
		adaption as a		
		function of		
		combat		
		exposure.		

Study	Population	Purpose	Analyses/Measures	Overview of Results
Thompson,	NVVRS:	To compare	Quantitative, used	Estimates produced
Gottesman,	male	alternative	narrow and	similar prevalences
&	Vietnam	criteria for	specific, and broad	for both narrow and
Zalewski	Theater-	estimating the	and sensitive sets of	broad definitions of
(2006)	Veterans	prevalence of	criteria to derive	combat-related
	(N=1200)	PTSD using	estimates for	diagnoses of PTSD
	and male	the NVVRS	combat-related	between the two
	Vietnam	and VES.	PTSD.	studies.
	Era-			
	Controls			
	(n=424)			
	VES: 4,462			
	veterans			
	from U.S.			
	Army			
	records.			
Yehuda,	40 patients	The objective	Quantitative, used	Link observed
Southwick	with	was to explore	several ratings of	between
& Giller	combat-	aspects of	stress exposure and	wartime atrocity
(1992)	related	trauma	symptom severity;	exposure and
	PTSD.	associated	M-PTSD (cutoff	increased
		with severity	107), Schedule for	symptomatic severity.
		of PTSD in	Affective Disorders	Data suggest
		Vietnam	and Schizophrenia	enduring effect and
		Veterans.	(SADS), Figley	severity of PTSD
			Scale for Combat	symptoms were
			Posttraumatic	associated more with
			Stress Disorder,	exposure to brutal human death and
			Impact of Event Scale, Hamilton	suffering than the
			Rating Scale for	threat of death
			Depression,	associated with
			Combat Exposure	combat.
			Scale, and Atrocity	Comoat.
			Scale.	
			scale.	

Study	Population	Purpose	Analyses/Measures	Overview of Results
Zatzick,	1,200 male	To help with	Quantitative,	Risks of poorer
Marmar,	Vietnam	under-	logistic models.	outcome were
Browner,	theater	standing the	PTSD (M-PTSD),	significantly higher in
Metzler,	veterans.	relationship	diminished	subjects with PTSD
Golding, et		between	wellbeing, physical	than in subjects
al. (1997)		PTSD,	limitations, bed day	without PTSD in five
		functioning,	in the past 2 weeks,	of the 6 domains.
		and quality of	compromised	Suffering associated
		life.	physical health	with combat related-
			status (Rand Health	PTSD extends
			Insurance	beyond the signs and
			Experiment),	symptoms of the
			currently not	disorder to broader
			working, and	areas of functional
			perpetration of	and social morbidity.
			violence (Conflict	
			Tactics Scale) were	
			examined.	
Zhang &	N/A.	To provide a	Qualitative content	The goal is to identify
Wildemuth		step by step	analysis.	important themes or
(2009)		explanation of		categories within a
		how to		body of content, and
		perform		to provide a rich
		qualitative		description of the
		analysis of		social reality created
		content.		by those
				themes/categories.
				Careful data
				preparation, coding,
				and interpretation
				support the
				development of new theories/models, as
				well as validate
				existing theories of a
				phenomenon.