

Review of Moral Injury in the General Public and Military 2010–2020



By
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**This book is dedicated to my spouse Shawn and to
her faithful devotion during this program.**

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Ten Year Meta-Analytic Review 2010-2020

Introduction

The primary objective of the annotated bibliography is to appraise and annotate recent literature (2010-2020) on moral injury.¹ Currently, research on moral injury in the military has shown substantial detrimental effects on service members.² Thus far, the accruing subjective evidence is supportive of the hypothesis that there exists a strong connection between moral injury and Post Traumatic Stress Disorder within the civilian sector as well as the US military.³

As part of the annotation of the research on moral injury from the past decade, an analysis of theoretical, qualitative, and quantitative studies will be essential in organizing and categorizing the consequent bibliography. Theoretical studies are categorized based on their inherently philosophical approach and discussion, Qualitative studies are categorized based on their use of research methods that utilize smaller sample sizes but that go much deeper into the phenomenon Potentially Morally Injurious Events⁴ in terms of the meanings and perceptions that interviewed individuals give them in natural settings. And quantitative studies are categorized based on their use of research methods that utilize statistical analyses and larger sample sizes that can make more accurate conclusions about the influence of moral

1. Jonathan Shay. "Moral Injury," *Psychoanalytic Psychology* 31, no. 2 (April 2014): 182.

2. Sheila Frankfurt and Patricia Frazier, "A Review of Research on Moral Injury in Combat Veterans," *Military Psychology* 28, no. 5, (December 2016): 318–330.

3. Joseph M. Currier et al., "Initial Psychometric Evaluation of the Moral Injury Questionnaire—Military Version," *Clinical Psychology and Psychotherapy* 22, no. 1 (January 2015): 54–63; Joseph M. Currier et al., "Temporal Associations Between Moral Injury and Posttraumatic Stress Disorder Symptom Clusters in Military Veterans," *Journal of Traumatic Stress* 32, no. 3 (June 2019): 382–392.

4. Blair E. Wisco et al., "Moral Injury in US Combat Veterans: Results from the National Health and Resilience in Veterans Study," *Depression and Anxiety* 34, no. 4 (January 2017): 340–347.

injury on the target populations. Using these three primary descriptions will then provide a framework that encompasses a comprehensive view of what contemporary researchers have been able to make progress on relating to moral injury.⁵

The annotated bibliography is designed to point out potential blind-spots for contemporary researchers to address in the future regarding moral injury and its detrimental mental, emotional, and spiritual effects. For the most part, a substantial portion of existing research on moral injury comes from military personnel studies. The phrase “moral injury” itself was initially used in 1995 by Dr. Jonathan Shay. This early definition had three components: “a betrayal of what is morally right, by someone who holds legitimate authority, and a high-stakes situation”.⁶ Later research studies explore additional components, including personal links to the transgression and the personal feeling of betrayal in the criteria.⁷

Definition of Terms

To help understand the terms used throughout this project, the following definitions are examined:

Moral Injury: As it currently stands, moral injury is “the damage done to one’s conscience or moral compass when that person perpetrates, witnesses, or fails to prevent acts that transgress one’s own moral beliefs, values, or ethical codes of conduct”.⁸

Potentially Morally Injurious Event: A traumatic event that places

5. Brandon J. Griffin et al., “Moral Injury: An Integrative Review,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 350–362.

6. Jonathan Shay, *Achilles in Vietnam: Combat Trauma and the Undoing of Character* (New York, NY: Simon and Schuster, 1995).

7. Blair E. Wisco et al., “Moral Injury in US Combat Veterans: Results from the National Health and Resilience in Veterans Study,” *Depression and Anxiety* 34, no. 4 (January 2017): 340-347.

8. “What is Moral Injury – The Moral Injury Project – Syracuse University”, Syracuse University, Accessed October 2, 2020. <https://moralinjuryproject.syr.edu/about-moral-injury>.

the individual in a situation that challenges and/or violates their personal moral values.⁹

PTSD: Post-Traumatic Stress Disorder is presently classified as a cognitive disorder consisting of a stressor, an intrusion system, an element of evasion, adverse alterations in cognition and mood, changes in stimulation and reactivity, duration for at least one month, functional impairment to everyday life, and is not caused by medication.¹⁰

Annotated Bibliography: An annotated bibliography offers a compilation of research sources that includes summarizing descriptions and assessments of each source.¹¹

Meta-Analysis: A method of research that combines the results of several connected studies to produce better results. Takes different pieces of research and fits them into the bigger picture.¹²

Qualitative Research: Research that is categorized based on their focus on in-depth, open-ended interviews, or written communications.¹³

How to Use Annotated Bibliography

The articles will be presented by year to illustrate a timeline of the research. Each article has been categorized as theoretical, qualitative, or quantitative. As such, the format for the annotated bibliography will be as

9. Wisco et al., “Moral Injury in US Combat Veterans,” 340–347.

10. American Psychiatric Association, *Diagnostic and Statistic Manual of Mental Disorders*, 5th ed. (Arlington, VA: American Psychiatric Association, 2013) 272–274.

11. University of New South Wales, Sydney, “Annotated Bibliography”. Accessed September 10, 2020. <https://student.unsw.edu.au/annotated-bibliography>.

12. Aeilko H. Zwinderman and Cleophas, Ton J., *Modern Meta-Analysis: Review and Update of Methodologies* (Germany: Springer International Publishing, 2017), 1.

13. Michael Quinn Patton, *Qualitative Research and Evaluation Methods* (Thousand Oaks, CA: SAGE Publications, 2015), 17.

follows:

<u>Article Title:</u>	<u>Category:</u>	<u>Purpose:</u>
<u>First Author:</u>		<u>Conclusion:</u>

The information distribution will be a resource available to chaplains to use as a reference for moral injury research from the past decade. It can likewise be applied as a source of information that can benefit readers by illustrating moral injury research trends.

Summary and Conclusion

The meta-analytic review contributes to demonstrating that moral injury is a field of study that desperately needs additional research conducted. The review examines moral injury research from 2010 to 2020 to compile and summarize the field's research history in general. However, in the more than two hundred studies that have been summarized and examined, there is still no clear, comprehensive, and universally accepted definition of what moral injury is. Three primary themes of moral injury have developed through the course of the meta-analysis; it involves a traumatic event, the perceived violation of moral values, and perpetrated by self, others, or includes betrayal. Additionally, various intervention and treatment methods have been developed and tested, but none has been generally acknowledged as the treatment specifically for moral injury. However, a recurring topic in the research on treatment and therapy is the critical role that chaplains can provide to those suffering from moral injury in the military. Chaplains are well-prepared to heal spiritual and faith-based

wounds, especially those with “sound theology, love, compassion, forgiveness, egalitarian mindset (we are all subject to those wounds), etc.”.¹⁴ This reinforces the necessity of competent chaplains in the military who can help military personnel with moral injury.

Research on moral injury will undoubtedly continue for many years to come. It is hoped that a universal definition will emerge and a collectively recognized treatment method specifically for moral injury in the military. Research has shown that moral injury is not identical to PTSD and therefore cannot be ameliorated with the same methods. Indeed, there are aspects within moral injury that manifest differently and will probably need to be addressed accordingly. As it stands, moral injury is a multifaceted and unfamiliar condition that acts as a predecessor for other debilitating mental and spiritual illnesses.

Information from Meta-analytic Review

Brief Historical Review

In the book, *Achilles in Vietnam: Combat Trauma and The Undoing of Character*, Dr. Jonathan Shay focused on betrayals of moral ideals as fundamental to combat trauma. He relates the story of Achilles in Homer’s *Iliad* to the experiences of US service members in the Vietnam War.¹⁵ Agamemnon, the overall Greek commander, steals the prize of valor from Achilles (nominated by the Greek soldiers for Achilles’ prowess in battle), which Shay equates to a contemporary officer ordering his soldier, “I’ll take that Congressional Medal of Honor of yours, because I don’t have one”.¹⁶ At this point, Achilles completely ceases to care about the other Greek soldiers save a select few due to this betrayal by Agamemnon. After the unfortunate death of his dear friend Patroclus at the hands of the Trojan 14. Brett T. Litz, email to author, September 10, 2020.

15. Jonathan Shay, *Achilles in Vietnam: Combat Trauma and the Undoing of Character* (New York, NY: Scribner, 1994).

16. Shay, *Achilles in Vietnam*, 6.

prince Hector, Achilles sheds all sense of humanity and compassion for any human being. His sense of self-reproach and wishing he were dead are feelings shared by Vietnam veterans who lost buddies overseas. Shay uses these two examples as the “undoing of Achilles’ character” to exemplify the idea of moral injury.¹⁷

In his second book, *Odysseus in America: Combat Trauma and the Trial of Homecoming*, Jonathan Shay continues the work of his previous book to illuminate the struggles that war veterans faced when they returned home from combat theaters. Again, he focuses on moral injury, but through the lens of war veterans in an unfamiliar journey to return home¹⁸. Just like Odysseus, these war veterans struggled with challenges and obstacles that prevented them from truly ever “coming home”. As he states, “No one should ever hear from his mother, ‘You are not my son!’ or ‘Better you died over there than come home like *this*.’” but some veterans with psychological wounds were told these exact words.¹⁹ He also talks about how returning veterans were ambushed by the political right (for “losing” the war that the WWII generation could have won) and the political left (for every bad thing that happened in Vietnam), which undoubtedly led to a sense of betrayal in those veterans.²⁰

The first instance of “moral injury” appearing in research literature was in 2009 from the seminal research article by Litz et al. This study examines the morally questionable and ethically ambiguous situations that military members find themselves in. These situations lead to moral conflict and dissonance that can cause emotional distress, such as shame and guilt manifesting within the individual. This negative emotional development eventually leads to moral injury, although the phenomenology manifests itself differently in self-transgressive acts and other-perpetrated

17. Shay, *Achilles in Vietnam*, 26.

18. Jonathan Shay, *Odysseus in America: Combat Trauma and the Trials of Homecoming* (New York, NY: Scribner, 2002).

19. Shay, *Odysseus in America*, 2.

20. Shay, *Odysseus in America*, 249.

morally injurious experiences.²¹ Potentially Morally Injurious Experiences (PMIEs) are defined as: “Perpetrating, failing to prevent, bearing witness to, or learning about acts that transgress deeply held moral beliefs and expectations.”²² Although the definition of moral injury has changed since 2009, the one common theme is the desecration or transgression of personal moral values and expectations.

The timeline for this literature review from 2010 to 2020 is curiously fitting. Excluding the publications by Jonathan Shay in 1994 and 2002 and the research study by Litz et al. in 2009, there were no studies that met the criteria²³ in the EBSCO and Web of Science databases for the year 2010.

Review – 2011

As with 2010, there is scant evidence about moral injury in the academic community in 2011. Only one article appeared in both the EBSCO and Web of Science databases; “Casualties” by Jonathan Shay. In this article, he further expounds on moral injury by emphasizing the component of leadership malpractice as a driving factor of moral injury.²⁴ He focuses on “where the betrayer of what is right holds legitimate authority”, arguing that it terminates “the capacity for social trust in the mental and social worlds of the service member or veteran”.²⁵ This destruction of the social trust capacity leads to an expectancy of harm, exploitation, or humiliation. In turn, the individual develops three common strategies; “strike first, get away to complete isolation from others, develop effective deception and

21. Brett T. Litz, email to author, September 10, 2020.

22. Brett T. Litz et al., “Moral Injury and Moral Repair in War Veterans: A Preliminary Model and Intervention Strategy,” *Clinical Psychology Review* 29, no. 8 (December 2009): 700.

23. Criteria for research studies used in the literature review: From Web of Science or EBSCO, between the years 2010 and 2020, keywords mention “Moral Injury”, study is written or translated into English, and a full write-up is available online.

24. Jonathan Shay, “Casualties,” *Daedalus* 140, no. 3 (July 2011): 179.

25. Shay, “Casualties”, 181.

concealment”.²⁶ These are barriers to obtaining or maintaining care of those with mental health issues.

Review – 2012

In 2012, research began to increase slightly; the Web of Science database produced four relevant articles, and the EBSCO database produced two relevant articles. Both of the EBSCO database articles were found in the Web of Science database, creating redundancy in the information. Two of the studies are theoretical in nature, and the other two studies are quantitative.

Kinghorn examined the roles of Christian ethics and churches in treating moral injury, arguing that they are better suited to ameliorate moral injury due to the inherent understanding of spiritual distress compared to mental health clinics.²⁷ Worthington & Langberg examined how self-condemnation eventually leads to moral injury and how self-forgiveness can help in the healing process.²⁸

Gray et al. evaluated the effectiveness of Adaptive Disclosure (AD) treatment on 44 Marines who had PTSD. The researchers further concluded that AD could also be used to “address guilt and shame resulting from morally injurious actions as well as grief related to traumatic loss”.²⁹ Stein et al. conducted interviews with 122 active-duty service members to illustrate various forms of trauma in the military. Instead of assuming that

26. Shay, “Casualties”, 181.

27. Warren Kinghorn, “Combat Trauma and Moral Fragmentation: A Theological Account of Moral Injury,” *Journal of the Society of Christian Ethics* 32, no. 2 (October 2012): 57–58.

28. Everett L. Worthington Jr. and Diane Langberg, “Religious Considerations and Self-forgiveness in Treating Complex Trauma and Moral Injury in Present and Former Soldiers,” *Journal of Psychology and Theology* 40, no. 4 (December 2012): 274.

29. Matt J. Gray et al., “Adaptive Disclosure: An Open Trial of a Novel Exposure-based Intervention for Service Members with Combat-related Psychological Stress Injuries,” *Behavior Therapy* 43, no. 2 (June 2012): 407.

combat trauma is primarily fear-based, they found several different types of war trauma; “threat to self, threat to others, the aftermath of violence, traumatic loss, moral injury by self, and moral injury by others”.³⁰

Review – 2013

The year 2013 saw nominal growth in the research articles on moral injury. The Web of Science database reveals six articles, and the EBSCO database has three, two of which are redundant. Four of the articles are theoretical in nature, two are qualitative, and one is quantitative for a total of seven different research articles.

Maguen and Burkman contend that the experience of killing in war does not fit into the prevailing models of PTSD. Thus, they state that a new treatment should be developed to supplement existing PTSD treatments.³¹ Steenkamp et al. argue that prolonged exposure (PE) therapy effectively treats fear and anxiety in PTSD, but not guilt and shame in moral injury. They further argue that victimization-related guilt is not identical to perpetration-related guilt, nor are they synonymous with survivor guilt.³² Rauch et al. countered both Maguen and Burkman as well as Steenkamp et al. to argue that PE therapy can be used to treat both PTSD and moral injury. They further state that the development of any new treatments is unnecessary.³³ Nash and Litz explore the relationship between deployment-related psychological trauma in military families and moral injury. They found that forgiveness was crucial to recovering from moral injury

30. Nathan R. Stein et al., “A Scheme for Categorizing Traumatic Military Events,” *Behavior Modification* 36, no. 6 (November 2012): 787.

31. Shira Maguen and Kristine Burkman, “Combat-related Killing: Expanding Evidence-based Treatments for PTSD,” *Cognitive and Behavioral Practice* 20, no. 4 (November 2013): 476.

32. Maria M. Steenkamp et al., “How Best to Treat Deployment-related Guilt and Shame: Commentary on Smith, Duax, and Rauch (2013),” *Cognitive and Behavioral Practice* 20, no. 4 (November 2013): 471.

33. Sheila AM Rauch et al., “A Data-driven Perspective: Response to Commentaries by Maguen and Burkman (2013) and Steenkamp et al. (2013),” *Cognitive and Behavioral Practice* 20, no. 4 (November 2013): 480.

and recommended Adaptive Disclosure (AD) therapy to help resolve moral injury.³⁴ Regarding its use in the family, they encouraged a focus on the family dynamics (communication, trust, sharing) and encouraging mutual forgiveness.

Dombo, Gray, and Early used three vignettes from civilian clinical experience to explore moral injury. This particular study intended to help clinicians distinguish between PTSD and moral injury, specifically the role of shame.³⁵ Gibbons et al. interviewed ten military healthcare providers who were deployed to combat zones. They found that these individuals were exposed to moral stressors that manifested into inner dissonance through feelings of distress, futility, frustration, guilt, and helplessness.³⁶

Nash et al. conducted a study of administering the Moral Injury Events Scale (MIES) to 1,039 Marines on active duty. The MIES were divided into “perceived transgressions by self or others” and “perceived betrayal by others”. Researchers found that “the MIES is conceptually valid and psychometrically sound”; it can be used to assess encounters in the military with traumatic material that may conflict with personal moral values.³⁷

Review – 2014

For the year 2014, there are ten unique research articles found in the Web of Science and EBSCO databases; six are theoretical in nature, three are qualitative, and one is quantitative.

The theoretical studies looked at further refining the definition of

34. William P. Nash and Brett T. Litz, “Moral Injury: A Mechanism for War-related Psychological Trauma in Military Family Members,” *Clinical Child and Family Psychology Review* 16, no. 4 (December 2013): 365.

35. Eileen A. Dombo, Cathleen Gray, and Barbara P. Early, “The Trauma of Moral Injury: Beyond the Battlefield,” *Journal of Religion & Spirituality in Social Work: Social Thought* 32, no. 3 (July 2013): 197.

36. Susanne W. Gibbons et al., “How do Deployed Health Care Providers Experience Moral Injury?,” *Narrative Inquiry in Bioethics* 3, no. 3 (Winter 2013): 247.

37. William P. Nash et al., “Psychometric Evaluation of the Moral Injury Events Scale,” *Military Medicine* 178, no. 6 (June 2013): 646.

moral injury and proposing different methods of ameliorating its negative impact. Farnsworth et al. found that certain situations in combat may extend past the fear that exists in PTSD to include guilt and shame from moral injury; this, in turn, can result in more significant PTSD symptoms.³⁸ Gilligan tries to demonstrate how moral injury can affect those who are not in the military, concluding that these less severe forms of moral injury are prevalent in mostly marginalized minorities.³⁹ Keenan, Lumley, and Schneider explore the use of letter writing as a therapeutic means of helping resolve feelings of loss, grief, guilt, and shame in moral injury cases. They state that it is part of healing transformations that can be used to help treat moral injury.⁴⁰ Kopacz advocates for the use of pastoral care in helping to ameliorate moral injury in the military, pointing out that health-care providers are becoming more aware about the role spirituality plays in supporting mental health in patients.⁴¹ Shay provides an agreement with the two definitions previously stated that emerged from moral injury, i.e., when an individual does something in war that violates their own morals and suffers from moral injury. He also differentiates between PTSD and moral injury; “PTSD is an actual or threatened death or serious injury, or a threat to the physical integrity of self or others”, whereas “moral injury is acts that violate deeply held moral values”, that cause a loss of trust.⁴²

38. Jacob K. Farnsworth et al., “The Role of Moral Emotions in Military Trauma: Implications for the Study and Treatment of Moral Injury,” *Review of General Psychology* 18, no. 4 (December 2014): 249.

39. Carol Gilligan, “Moral Injury and the Ethic of Care: Reframing the Conversation about Differences,” *Journal of Social Philosophy* 45, no. 1 (March 2014): 89.

40. Melinda J. Keenan, Vicki A. Lumley, and Robert B. Schneider, “A Group Therapy Approach to Treating Combat Posttraumatic Stress Disorder: Interpersonal Reconnection Through Letter Writing,” *Psychotherapy* 51, no. 4 (December 2014): 546.

41. Marek S. Kopacz, “Moral Injury—A War Trauma Affecting Current and Former Military Personnel,” *International Journal of Social Psychiatry* 60, no. 7 (November 2014): 722.

42. Jonathan Shay, “Moral Injury,” *Psychoanalytic Psychology* 31, no. 2 (April 2014): 182.

Sherman studies self-empathy as a factor of healing in moral injury, arguing that self-empathy and self-forgiveness can be used to heal guilt and shame felt by the individual.⁴³

Qualitative studies examined art-based intervention, Prolonged Exposure (PE) therapy, and the experiences of veterans reintegrating back into civilian life. Artra looked at art-based interventions in eight combat veterans affected by moral injury and complicated grief. The results showed that meaning making could be assessed using this intervention method.⁴⁴ Paul et al. used PE in treating post-traumatic symptoms related to a morally injurious event. The results showed that after the nine sessions of PE therapy, the veteran reported minimal PTSD symptoms. They then concluded that PE might be an effective treatment for guilt and shame in veterans.⁴⁵ Worthen and Ahern directed in-depth interviews with 24 veterans to study their reintegration involvements. Half of the participants reported problems with anger based on either loss of structure, PTSD, or moral injury, with the most common being loss of structure. The anger due to moral injury stems from betrayal and shame; the participants reported feeling different from “normal people” and “unworthy” to be around other veterans.⁴⁶

The quantitative study by Ritov and Barnettz explored the role of moral objection in PTSD severity. They interviewed 147 reserve combat troops of the Israel Defense Forces and found that almost 20% of personnel reported high moral protestation to the commands they were expected to

43. Nancy Sherman, “Recovering Lost Goodness: Shame, Guilt, and Self-empathy,” *Psychoanalytic Psychology* 31, no. 2 (April 2014): 217.

44. Iishana P. Artra, “Transparent Assessment: Discovering Authentic Meanings Made by Combat Veterans,” *Journal of Constructivist Psychology* 27, no. 3 (July 2014): 211.

45. Lisa A. Paul et al., “Prolonged Exposure for Guilt and Shame in a Veteran of Operation Iraqi Freedom,” *American Journal of Psychotherapy* 68, no. 3 (July 2014): 284.

46. Miranda Worthen and Jennifer Ahern, “The Causes, Course, and Consequences of Anger Problems in Veterans Returning to Civilian Life,” *Journal of Loss and Trauma* 19, no. 4 (July 2014): 355.

act upon. The results suggested that moral objection has significant implications for their psychological and organic well-being.⁴⁷

Review – 2015

For 2015, EBSCO and Web of Science databases yielded 14 different research articles; theoretical articles numbered five, qualitative articles numbered four, and quantitative articles numbered five.

Theoretical studies primarily focused on various forms of intervention that could help ameliorate moral injury, including utilizing religious support,⁴⁸ resilience,⁴⁹ shifting away from Cognitive Processing Therapy (CPT),⁵⁰ and using Acceptance and Commitment Therapy (ACT).⁵¹ The final theoretical study by Nazarov et al. provided additional evidence to support previous research that links “exposure to and the perceived perpetration of moral transgressions with experiences of guilt and shame”, which also can lead to PTSD.⁵²

Three of the four qualitative research articles’ purposes were to build

47. Gilad Ritov and Zion Barnettz, “The Interrelationships between Moral Attitudes, Posttraumatic Stress Disorder Symptoms and Mixed Lateral Preference in Israeli Reserve Combat Troops,” *International Journal of Social Psychiatry* 60, no. 6 (September 2014): 606.

48. Chris J. Antal and Kathy Winings, “Moral Injury, Soul Repair, and Creating a Place for Grace,” *Religious Education* 110, no. 4 (August 2015): 382.

49. Carrie Doehring, “Resilience as the Relational Ability to Spiritually Integrate Moral Stress,” *Pastoral Psychology* 64, no. 5 (October 2015): 635.

50. Lisa D. Finlay, “Evidence-based Trauma Treatment: Problems with a Cognitive Reappraisal of Guilt,” *Journal of Theoretical and Philosophical Psychology* 35, no. 4 (November 2015): 220.

51. Jason A. Nieuwsma et al., “Possibilities Within Acceptance and Commitment Therapy for Approaching Moral Injury,” *Current Psychiatry Reviews* 11, no. 3 (August 2015): 193.

52. Anthony Nazarov, R. Jetly, H. McNeely, M. Kiang, R. Lanius, and M. C. McKinnon, “Role of Morality in the Experience of Guilt and Shame within the Armed Forces,” *Acta Psychiatrica Scandinavica* 132, no. 1 (July 2015): 1, 11.

awareness of moral injury in various contexts. One explored both physical and emotional trauma in combat,⁵³ another the relationship between moral injury and psycho-spiritual development.⁵⁴ The third article advocated the awareness of moral injury for social workers working with veterans.⁵⁵ The fourth and final article examined the role of moral injury in educators, defining it as “the trauma of perpetrating significant moral wrong against others despite one’s wholehearted desire and responsibility to do otherwise”.⁵⁶ This novel definition echoes but does not encompass other aspects of Shay, Litz, and others’ research.

Quantitative articles generally examined moral injury in conjunction with another principal factor with a few exceptions. Bryan et al. paired effects of guilt as “a mechanism for increased risk among suicidal military personnel and veterans with depression and post-traumatic stress”.⁵⁷ Two research articles examined how contact with Morally Injurious Experiences (MIES) influenced mental symptoms; one found that contact with MIES with less meaning made by the individual was connected to

53. Lisa A. Brenner et al., “Soldiers Returning from Deployment: A Qualitative Study Regarding Exposure, Coping, and Reintegration,” *Rehabilitation Psychology* 60, no. 3 (August 2015): 277.

54. J. Irene Harris et al., “Moral Injury and Psycho-spiritual Development: Considering the Developmental Context,” *Spirituality in Clinical Practice* 2, no. 4 (December 2015): 256.

55. Marek S. Kopacz, Kelsey V. Simons, and Khamkay Chitaphong, “Moral Injury: An Emerging Clinical Construct with Implications for Social Work Education,” *Journal of Religion & Spirituality in Social Work: Social Thought* 34, no. 3 (July 2015): 252.

56. Meira Levinson, “Moral Injury and the Ethics of Educational Injustice,” *Harvard Educational Review* 85, no. 2 (June 2015): 203.

57. Craig J. Bryan et al., “Guilt as a Mediator of the Relationship Between Depression and Posttraumatic Stress with Suicide Ideation in Two Samples of Military Personnel and Veterans,” *International Journal of Cognitive Therapy* 8, no. 2 (June 2015): 143.

poorer mental health.⁵⁸ The other reported that higher instances of MIES also resulted in increased PTSD symptoms in El Salvador teachers.⁵⁹ An assessment of the Moral Injury Questionnaire – Military Version (MIQ-M) showed it as a valid assessment of MIES among the military except for sexual trauma.⁶⁰ The final quantitative study examined moral injury in refugees, indicating that moral injury has a significant contribution to mental health outcomes, especially in torture survivors.⁶¹

Review – 2016

For the year 2016, the EBSCO and Web of Science databases contain 18 different research articles; 11 theoretical, two qualitative, and five quantitative.

Some of the theoretical studies reiterate previous studies' findings, such as integrating spirituality into social work,⁶² chaplains and pastoral

58. Joseph M. Currier, Jason M. Holland, and Jesse Malott, "Moral Injury, Meaning Making, and Mental Health in Returning Veterans," *Journal of Clinical Psychology* 71, no. 3 (March 2015): 229.

59. Joseph M. Currier et al., "Morally Injurious Experiences and Meaning in Salvadorian Teachers Exposed to Violence," *Psychological Trauma: Theory, Research, Practice, and Policy* 7, no. 1 (January 2015): 24.

60. Joseph M. Currier et al., "Initial Psychometric Evaluation of the Moral Injury Questionnaire—Military Version," *Clinical Psychology & Psychotherapy* 22, no. 1 (January 2015): 54.

61. Angela Nickerson et al., "Moral Injury in Traumatized Refugees," *Psychotherapy and Psychosomatics* 84, no. 2 (February 2015): 122.

62. Dee Blinka and Helen Wilson Harris, "Moral Injury in Warriors and Veterans: The Challenge to Social Work" *Social Work and Christianity* 43, no. 3 (October 2016): 7.; Dexter Freeman and Laurel Shaler, "Introduction: Special Issue on Religious and Spiritually-oriented Interventions with Veteran and Military Populations," *Social Work and Christianity* 43, no. 3 (October 2016): 3.; Wendy Haight et al., "A Scoping Study of Moral Injury: Identifying Directions for Social Work Research," *Children and Youth Services Review* 70 (November 2016): 190.

care in treating moral injury,⁶³ the role of shame as a principal factor in moral injury,⁶⁴ and moral injury symptoms.⁶⁵ Blackie et al. argue that those who commit violent acts can find posttraumatic growth through disclosure in a supportive context.⁶⁶ Bowker and Levine state that more research needs to be done to explore the state of mind individuals bring with them to the military as well as the mental and moral meaning invested in the military as an institution.⁶⁷ Congdon argues that morally wrong events that go unanswered by the public outcry for justice should be addressed.⁶⁸ Frankfurt and Frazier recommend a method of analysis that inherently separates the commission of transgressive acts and witnessing transgressive acts. They also found that the highest risk factors for moral injury are combat exposure and deployment length, with supporting factors being better leadership and battlefield ethics training.⁶⁹ Kopacz et al. state that Contemporary and Alternative Medicine (CAM) practices such as pastoral care and mindfulness-based approaches can be valuable resources to those

63. Lindsay B. Carey et al., “Moral Injury, Spiritual Care and the Role of Chaplains: An Exploratory Scoping Review of Literature and Resources,” *Journal of Religion and Health* 55, no. 4 (August 2016): 1218.

64. Camille M. Gaudet et al., “A Review of PTSD and Shame in Military Veterans,” *Journal of Human Behavior in the Social Environment* 26, no. 1 (January 2016): 66–68.

65. Jeremy D. Jinkerson, “Defining and Assessing Moral Injury: A Syndrome Perspective,” *Traumatology* 22, no. 2 (June 2016): 122.

66. Laura ER Blackie et al., “Can People Experience Posttraumatic Growth after Committing Violent Acts?,” *Peace and Conflict: Journal of Peace Psychology* 22, no. 4 (November 2016): 409.

67. Matthew H. Bowker and David P. Levine, “Beyond the Battlefield,” *Organisational and Social Dynamics* 16, no. 1 (May 2016): 85.

68. Matthew Congdon, “Wronged Beyond Words: On the Publicity and Repression of Moral Injury,” *Philosophy & Social Criticism* 42, no. 8 (October 2016): 815.

69. Sheila Frankfurt and Patricia Frazier, “A Review of Research on Moral Injury in Combat Veterans,” *Military Psychology* 28, no. 5 (June 2016): 318.

who suffer from moral injury.⁷⁰

Qualitative studies from 2016 focused on consequences of killing and moral injury in teachers. In terms of moral injury in teachers, Finefter-Rosenbluh found that teachers' peer evaluations were perceived as morally wrong due to invasion of privacy and classroom disruption.⁷¹ Purcell et al. examined the consequences of killing in war, finding that it provokes a moral conflict that affects the sense of self, spirituality, and relationships with others.⁷² The researchers also argue that the ability to disclose details about killing in war is a step in the healing process.

Quantitative studies from this year's group primarily explored moral injury in conjunction with factors not previously examined. Bryan et al. measured the validity of the Moral Injury Event Scale (MIES) in 935 Army National Guard personnel and 151 Air Force personnel on active duty. The results showed that "transgressions by others were strongly associated with post-traumatic stress; transgression by self was strongly associated with hopelessness, pessimism, and anger; and betrayal was most strongly associated with post-traumatic stress and anger".⁷³ Ferrajão and Oliveira looked at 60 Portuguese war veterans and PTSD recovery. They found that those with higher moral injury factors did not recover

70. Marek S. Kopacz et al., "Moral Injury: A New Challenge for Complementary and Alternative Medicine," *Complementary Therapies in Medicine* 24 (February 2016): 29.

71. Ilana Finefter-Rosenbluh, "Behind the Scenes of Reflective Practice in Professional Development: A Glance into the Ethical Predicaments of Secondary School Teachers," *Teaching and Teacher Education* 60 (November 2016): 1.

72. Natalie Purcell et al., "Veterans' Perspectives on the Psychosocial Impact of Killing in War," *The Counseling Psychologist* 44, no. 7 (October 2016): 1062.

73. Craig J. Bryan et al., "Measuring Moral Injury: Psychometric Properties of the Moral Injury Events Scale in Two Military Samples," *Assessment* 23, no. 5 (October 2016): 557-558.

from PTSD as well as those with lower moral injury factors.⁷⁴ Morgan et al. examined 889 active-duty soldiers who sought support from a chaplain and the predictors, unit shooting at the enemy, personally shooting at the enemy, and viewing human remains.⁷⁵ Tripp, McDevitt-Murphy, and Henschel saw that killing was predictive of PTSD and suicidal ideation, however they concluded that veterans who have moral injury helps to lessen suicide and PTSD, if addressed.⁷⁶ Finally, Yan found that moral injury is a predictor of PTSD and depression and acts as an integral role in both physical and health outcomes.⁷⁷

Review – 2017

EBSCO and Web of Science Databases yield 27 different research articles; 12 theoretical, four qualitative, and 11 quantitative.

Theoretical research for this year enveloped a variety of topics, most notably the continued exploration of the spiritual and religious characteristics of moral injury as well as the continued integration of chaplains and pastoral caregivers into the recovery process. Carey and Hodgson discovered that the current psychiatric/psychological paradigm tends to obscure the spiritual factors of moral injury, overlook the importance of betrayal as a critical component, and underreport the value and repute of chaplains

74. Paul Correia Ferrajão and Rui Aragão Oliveira, “Portuguese War Veterans: Moral Injury and Factors Related to Recovery from PTSD,” *Qualitative Health Research* 26, no. 2 (January 2016): 204.

75. Jessica Kelley Morgan et al., “Help-seeking Behaviors Among Active-duty Military Personnel: Utilization of Chaplains and Other Mental Health Service Providers” *Journal of Health Care Chaplaincy* 22, no. 3 (July 2016): 102.

76. Jessica C. Tripp, Meghan E. McDevitt-Murphy, and Aisling V. Henschel, “Firing a Weapon and Killing in Combat are Associated with Suicidal Ideation in OEF/OIF Veterans,” *Psychological Trauma: Theory, Research, Practice, and Policy* 8, no. 5 (September 2016): 626.

77. Grace W. Yan, “The Invisible Wound: Moral Injury and its Impact on the Health of Operation Enduring Freedom/Operation Iraqi Freedom Veterans,” *Military Medicine* 181, no. 5 (May 2016): 451.

and pastoral caregivers in the healing process.⁷⁸ Koenig et al. explored the usage of Spiritually Oriented Cognitive Processing Therapy (SOCPT) to ameliorate moral injury. They argue that integrating existing spiritual/religious (S/R) beliefs of the client that are typically not utilized by traditional therapists can result in faster recovery of PTSD.⁷⁹ Wortmann et al. contend that spiritual traditions are impacted by moral injury and that chaplains or clergy should be counseled to address these aspects of moral injury.⁸⁰ Moving to other aspects of moral injury, Gray, Nash, and Litz argue that Cognitive Processing Therapy (CPT) might not be the best approach in treating moral injury, and instead advocate the use of Adaptive Disclosure (AD) therapy.⁸¹ Wachen, Dondanville, and Resick argue the opposite view that CPT is a viable treatment for moral injury and more effective than AD therapy.⁸² Morkevicius examines the external nature of war and the inner nature of morality, stating the need to have unbiased war scholars negotiate

78. Lindsay B. Carey and Timothy J. Hodgson, "Moral Injury and Definitional Clarity: Betrayal, Spirituality and the Role of Chaplains," *Journal of Religion and Health* 56, no. 4 (August 2017): 1212.

79. Harold G. Koenig et al., "Rationale for Spiritually Oriented Cognitive Processing Therapy for Moral Injury in Active-duty Military and Veterans with Posttraumatic Stress Disorder," *The Journal of Nervous and Mental Disease* 205, no. 2 (February 2017): 147-148.

80. Jennifer H. Wortmann et al., "Spiritual Features of War-related Moral Injury: A Primer for Clinicians," *Spirituality in Clinical Practice* 4, no. 4 (December 2017): 249.

81. Matt J. Gray, William P. Nash, and Brett T. Litz, "When Self-blame is Rational and Appropriate: The Limited Utility of Socratic Questioning in the Context of Moral Injury: Commentary on Wachen et al.(2016)," *Cognitive and Behavioral Practice* 24, no. 4 (November 2017): 383.

82. Jennifer Schuster Wachen, Katherine A. Dondanville, and Patricia A. Resick, "Correcting Misperceptions about Cognitive Processing Therapy to Treat Moral Injury: A Response to Gray and Colleagues (this issue)," *Cognitive and Behavioral Practice* 24, no. 4 (November 2017): 388.

the gap between law and morality.⁸³ Powers seeks to integrate an Augustinian framework into moral injury to address the hopelessness felt due to human will and vulnerability to outside forces that influence moral injury.⁸⁴

Wiinikka-Lydon argues that moral injury in the military can empower veterans to oppose the social situations and procedures that led to war in the first place.⁸⁵ Papazoglou and Chopko study the function of moral injury in law enforcement personnel with PTSD, concluding that moral injury is pervasive and directly impacts their ability to perform their duties.⁸⁶ Wallace and Costello studied the mental well-being of unmanned aerial vehicle (UAV) operators, finding low instances for PTSD but occupational stressors and their effects were correlated to negative mental health outcomes.⁸⁷ The final theoretical article summarized conceptual topics from previous research.⁸⁸

Qualitative research for this year focused primarily on the usage of Acceptance and Commitment Therapy (ACT) as well as exploring the role of moral injury in Child Protection Services (CPS). Farnsworth et al. used

83. Valerie Morkevicius, “Looking Inward Together: Just War Thinking and Our Shared Moral Emotions,” *Ethics & International Affairs* 31, no. 4 (December 2017): 441.

84. Brian S. Powers, “Moral Injury and Original Sin: The Applicability of Augustinian Moral Psychology in Light of Combat Trauma,” *Theology Today* 73, no. 4 (January 2017): 325.

85. Joseph Wiinikka-Lydon, “Moral Injury as Inherent Political Critique: The Prophetic Possibilities of a New Term,” *Political Theology* 18, no. 3 (April 2017): 219.

86. Konstantinos Papazoglou and Brian Chopko, “The Role of Moral Suffering (Moral Distress and Moral Injury) in Police Compassion Fatigue and PTSD: An Unexplored Topic,” *Frontiers in Psychology* 8 (November 2017): 1999.

87. D. Wallace and J. Costello, “Eye in the Sky: Understanding the Mental Health of Unmanned Aerial Vehicle Operators,” *Journal of Military and Veterans Health* 25, no. 3 (July 2017): 36.

88. John Franklin et al., “Moral Injury: Invisible Wounds of Combat (SA517),” *Journal of Pain and Symptom Management* 53, no. 2 (February 2017): 400–401.

ACT to treat 11 veterans with PTSD, finding that it is a viable treatment option for moral injury, primarily when focused on forgiveness.⁸⁹ Three studies used a modified Moral Injury Event Scale (MIES) to assess moral injury's impact on CPS professionals,⁹⁰ parents,⁹¹ and both. They discovered that moral injury is prevalent across the system and that these groups may require diverse methods to deterrence and intervention than military personnel.⁹²

Quantitative research is mostly connected to active-duty service members (and veterans) with only a couple of exceptions. Fenton and Kelley assessed 100 social workers in Scotland and found a significant connection between risk aversion and ethical strain, leading to moral injury.⁹³ McCormick et al. assessed 267 Veterans Health Administration (VHA) chaplains and found that some reported negative changes in spirituality and/or emotional well-being while others reported positive changes or continued affirmation of their spiritual beliefs.⁹⁴ Dennis et al. assessed 603 Vietnam veterans for the effects of war atrocities, discovering that it led to

89. Jacob K. Farnsworth et al., "A Functional Approach to Understanding and Treating Military-related Moral Injury," *Journal of Contextual Behavioral Science* 6, no. 4 (October 2017): 391.

90. Wendy Haight, Erin P. Sugrue, and Molly Calhoun, "Moral Injury among Child Protection Professionals: Implications for the Ethical Treatment and Retention of Workers," *Children and Youth Services Review* 82 (November 2017): 27.

91. Wendy Haight et al., "'Basically, I look at it Like Combat': Reflections on Moral Injury by Parents Involved with Child Protection Services," *Children and Youth Services Review* 82 (November 2017): 477.

92. Wendy Haight et al., "Everyday Coping with Moral Injury: The Perspectives of Professionals and Parents Involved with Child Protection Services," *Children and Youth Services Review* 82 (November 2017): 108–109.

93. Jane Fenton and Timothy B. Kelly, "'Risk is King and Needs to Take a Back-seat!' Can Social Workers' Experiences of Moral Injury Strengthen Practice?," *Journal of Social Work Practice* 31, no. 4 (October 2017): 461.

94. Wesley H. McCormick et al., "Professional Quality of Life and Changes in Spirituality Among VHA Chaplains: A Mixed Methods Investigation," *Journal of Health Care Chaplaincy* 23, no. 3 (July 2017): 113.

“increased guilt, PTSD severity, depression, and suicidal ideation.”⁹⁵ Ferrell, Huyser, and Dykas assessed 37 veterans and recorded that those with moral injury also experienced hyperarousal, especially those veterans with higher self-regulatory skills.⁹⁶ Frankfurt, Frazier, and Engdahl evaluated 190 combat veterans for PTSD symptoms and suicidality through guilt and fear. Potentially transgressive actions were found to be connected to both suicidality and PTSD. They also found that guilt and fear were pathways to diverse consequences following these potentially transgressive actions; guilt led to both suicidality and PTSD, and fear led to just PTSD.⁹⁷ Houtsma et al. evaluated 552 military personnel for moral injury and belongingness, finding that moral injury can impact perceived isolation from others.⁹⁸ Jordan et al. assessed 867 active-duty Marines to see if Potentially Morally Injurious Events (PMIEs) led to PTSD instances. They found that perceived perpetration was associated with PTSD symptoms brought about by guilt/shame, and perceived betrayal was related with PTSD symptoms brought about by anger. The researchers concluded that betrayal-based PMIEs have a distinct pathway to PTSD due to the anger component.⁹⁹ Maguen et al. assessed 33 combat veterans with PTSD who completed the Impact of Killing (IOK) treatment and found they experienced a substan-

95. Paul A. Dennis et al., “Moral Transgression during the Vietnam War: A Path Analysis of the Psychological Impact of Veterans’ Involvement in Wartime Atrocities,” *Anxiety, Stress, & Coping* 30, no. 2 (March 2017): 188.

96. Emily L. Ferrell, John M. Huyser, and Matthew Dykas, “Moral Injury and Stress Response Patterns in United States Military Veterans,” *Modern Psychological Studies* 23, no. 1 (2017): 2.

97. Sheila B. Frankfurt, Patricia Frazier, and Brian Engdahl, “Indirect Relations between Transgressive Acts and General Combat Exposure and Moral Injury,” *Military Medicine* 182, no. 11-12 (November 2017): e1950.

98. Claire Houtsma et al., “Isolating Effects of Moral Injury and Low Post-deployment Support within the US Military,” *Psychiatry Research* 247 (January 2017): 194.

99. Alexander H. Jordan et al., “Distinguishing War-related PTSD Resulting from Perpetration-and Betrayal-based Morally Injurious Events,” *Psychological Trauma: Theory, Research, Practice, and Policy* 9, no. 6 (November 2017): 627.

tial improvement in their PTSD symptoms.¹⁰⁰ Yeterian, Berke, Litz evaluated 186 veterans with PTSD and tested Adaptive Disclosure (AD) and Present-Centered Therapy (PCT), discovering that the AD group had more significant improvements in cases resulting from transgression, betrayal, and loss.¹⁰¹ Other researchers explored the relationship between instances of betrayal on increased suicide risk¹⁰² and risk for mental disorders.¹⁰³

Review – 2018

EBSCO and Web of Science databases from 2018 contain significantly more research than any previous year group; 17 theoretical articles, ten qualitative articles, and 25 quantitative articles for a total of 52 research articles.

Theoretical articles from this year covered a wide range of topics concerning research in moral injury. Carey and Hodgson suggested that chaplains should be involved in treatment and screening of moral injury. They proposed a new method called Pastoral Narrative Directive as a guide for chaplains to help those suffering from moral injury.¹⁰⁴ Childs echoes this sentiment, stating that moral injury is a spiritual matter that requires spiri-

100. Shira Maguen et al., “Impact of Killing in War: A Randomized, Controlled Pilot Trial,” *Journal of Clinical Psychology* 73, no. 9 (September 2017): 997.

101. Julie D. Yeterian, Danielle S. Berke, and Brett T. Litz, “Psychosocial Rehabilitation After War Trauma with Adaptive Disclosure: Design and Rationale of a Comparative Efficacy Trial,” *Contemporary Clinical Trials* 61 (October 2017): 10–11.

102. Rachel L. Martin et al., “The Impact of Aggression on the Relationship between Betrayal and Belongingness among US Military Personnel,” *Military Psychology* 29, no. 4 (April 2017): 271.

103. Blair E. Wisco et al., “Moral Injury in US Combat Veterans: Results from the National Health and Resilience in Veterans Study,” *Depression and Anxiety* 34, no. 4 (April 2017): 340.

104. Lindsay B. Carey and Timothy J. Hodgson, “Chaplaincy, Spiritual Care and Moral Injury: Considerations Regarding Screening and Treatment,” *Frontiers in Psychiatry* 9 (December 2018): 619.

tual resources, like chaplains and clergy, for healing.¹⁰⁵ Meador and Nieuwsma contend that chaplains are a relevant part of moral injury care and should be used more intentionally.¹⁰⁶ An argument for including Canadian Armed Forces chaplains in mental health clinics is also made.¹⁰⁷ Grimell relates the stories of famous warriors in the Old Testament through theories on moral injury and PTSD.¹⁰⁸ Guth wrote two articles, one arguing that moral injury can be used to examine the legacies of those who succumbed to leadership malpractice¹⁰⁹ and another that utilizes feminist and womanist ethics to argue against tainted legacies in religious contexts¹¹⁰. Keefe-Perry found that moral injury was prevalent in the field of education and argued that it should be included in teacher training programs.¹¹¹ Koenig evaluated the Moral Injury Symptom Scale – Military Version (MISS-M) and found it to be an assessment of reliability and validity. The MISS-M assesses together spiritual/religious and mental aspects of moral injury.¹¹² Litz and 105. James M. Childs Jr, “Moral Injury and the Priesthood of All Believers 1,” *Dialog* 57, no. 2 (June 2018): 111.

106. Keith G. Meador and Jason A. Nieuwsma, “Moral Injury: Contextualized Care,” *Journal of Medical Humanities* 39, no. 1 (March 2018): 93.

107. Lorraine A. Smith-MacDonald, Jean-Sébastien Morin, and Suzette Brémault-Phillips, “Spiritual Dimensions of Moral Injury: Contributions of Mental Health Chaplains in the Canadian Armed Forces,” *Frontiers in Psychiatry* 9 (November 2018): 592.

108. Jan Grimell, “Contemporary Insights from Biblical Combat Veterans through the Lenses of Moral Injury and Posttraumatic Stress Disorder,” *Journal of Pastoral Care & Counseling* 72, no. 4 (December 2018): 241.

109. Karen V. Guth, “Moral Injury and the Ethics of Teaching Tainted Legacies,” *Teaching Theology & Religion* 21, no. 3 (July 2018): 197.

110. Karen V. Guth, “Moral Injury, Feminist and Womanist Ethics, and Tainted Legacies,” *Journal of the Society of Christian Ethics* 38, no. 1 (August 2018): 167.

111. L. Callid Keefe-Perry, “Called into Crucible: Vocation and Moral Injury in US Public School Teachers,” *Religious Education* 113, no. 5 (October 2018): 489.

112. Harold G. Koenig, “Measuring Symptoms of Moral Injury in Veterans and Active-duty Military with PTSD,” *Religions* 9, no. 3 (March 2018): 86–87.

Carney advocated that compassion training can help patients partake in adaptive and reparative behaviors, immensely refining social connections.¹¹³ MacLeish argues that moral injury theory and violence link “mental illness directly to the politics of war violence and post-war care”.¹¹⁴ Molendijk argues that research should expand out to political practices and public narratives at home in addition to looking at the individual.¹¹⁵ A separate article examines morality’s role in deployment-related distress, concluding that values and standards are “characterized by conflict, moral conflict may entail important social dimensions, and moral conflict may lead to altered beliefs about previously held values”.¹¹⁶ Purcell et al. argue that self-forgiveness may not repair the underlying conditions of moral injury, but it can allow people to find a path forward.¹¹⁷ Subotic and Steele explore the consequences of moral injury on society and how it changes the identity and sense of self.¹¹⁸ One author argues that “moral injury might be part of the ‘dirt’ of a political leader’s choices to do wrong” to affect a necessary good.¹¹⁹ Williamson, Stevelink, and Greenberg echo previous

113. Brett Litz and Jessica R. Carney, “Employing Loving-kindness Meditation to Promote Self-and Other-compassion among War Veterans with Posttraumatic Stress Disorder,” *Spirituality in Clinical Practice* 5, no. 3 (September 2018): 201.

114. Kenneth MacLeish, “On ‘Moral Injury’ Psychic Fringes and War Violence,” *History of the Human Sciences* 31, no. 2 (April 2018): 128.

115. Tine Molendijk, “Toward an Interdisciplinary Conceptualization of Moral Injury: From Unequivocal Guilt and Anger to Moral Conflict and Disorientation,” *New Ideas in Psychology* 51 (December 2018): 1–2.

116. Tine Molendijk, Eric-Hans Kramer, and Désirée Verweij, “Moral Aspects of ‘Moral Injury’: Analyzing Conceptualizations on the Role of Morality in Military Trauma,” *Journal of Military Ethics* 17, no. 1 (January 2018): 36.

117. Natalie Purcell et al., “‘Opening a Door to a New Life’: The Role of Forgiveness in Healing from Moral Injury,” *Frontiers in Psychiatry* 9 (October 2018): 498.

118. Jelena Subotic and Brent J. Steele, “Moral Injury in International Relations,” *Journal of Global Security Studies* 3, no. 4 (October 2018): 387.

119. Joseph Wiinikka-Lydon, “Dirty Hands and Moral Injury,” *Philosophy, Volume* 93, Issue: 3 (July 2018): 355.

studies that Potentially Morally Injurious Experiences (PMIEs) are related to PTSD; they cause negative cognitions and affect suicidality.¹²⁰

Qualitative articles from this year explored a variety of facets in moral injury research. Held et al. compared the use of Cognitive Processing Therapy (CPT) and the use of Prolonged Exposure (PE) in treating moral injury, showing that both were successful at reducing moral injury-based PTSD.¹²¹ Miller examines two engagements in the War of 1812 in terms of moral injury and trauma, exhibiting warfare's brutal and violent nature.¹²² Five medical students were interviewed about their experiences in emergency medicine, showing that they need to have support opportunities due to the trauma they experience.¹²³ Purcell et al. looked at how the Impact of Killing (IOK) treatment affected 28 combat veterans, discovering that it helped veterans work through the healing process for their moral injury, especially those veterans who struggle with killing in war.¹²⁴ Schorr et al. studied 19 veterans and found two significant categories of morally injurious events exist, personal responsibility (distress from their own behavior)

120. Victoria Williamson, Sharon AM Stevelink, and Neil Greenberg, "Occupational Moral Injury and Mental Health: Systematic Review and Meta-analysis," *The British Journal of Psychiatry* 212, no. 6 (June 2018): 339.

121. Philip Held et al., "Using Prolonged Exposure and Cognitive Processing Therapy to Treat Veterans with Moral Injury-based PTSD: Two Case Examples," *Cognitive and Behavioral Practice* 25, no. 3 (August 2018): 377.

122. Joseph R. Miller, "Two Brownstowns: A Case Study on Moral Injury and Reciprocal Violence," *American Review of Canadian Studies* 48, no. 2 (April 2018): 138.

123. Esther Murray, Charlotte Krahé, and Danë Goodsman, "Are Medical Students in Prehospital Care at Risk of Moral Injury?," *Emergency Medicine Journal* 35, no. 10 (October 2018): 590.

124. Natalie Purcell et al., "Healing from Moral Injury: A Qualitative Evaluation of the Impact of Killing Treatment for Combat Veterans," *Journal of Aggression, Maltreatment & Trauma* 27, no. 6 (July 2018): 645.

and responsibility of others (distress from actions of others).¹²⁵ Sherman et al. interviewed 20 military couples how the roles of religious/spiritual (R/S) beliefs impacted PTSD both individually and as a couple. The researchers found that some couples withdrew from R/S, others drew upon R/S to strengthen their marriages, and a few used R/S against one another in a possibly harmful fashion.¹²⁶ Simmons et al. interviewed 119 nurses, noticing that spirituality acted as a barrier against emerging behavioral health problems and helped them get through difficult experiences.¹²⁷ Sun et al. used Magnetic Resonance Imaging (MRI) in 26 participants to show that moral injury and PTSD are distinct and separable neural correlates.¹²⁸

Quantitative articles were very diverse, from international combat veterans to teachers and refugees. One study looked at 21 German soldiers with PTSD and moral injury undergoing treatment focused on “compassionate imagery”. The results show that overall psychological stress dropped significantly, and depressive symptoms showed positive change tendencies.¹²⁹ Another study surveyed 1,097 German soldiers on existential/spiritual desires and mental health, concluding that coping with

125. Yonit Schorr et al., “Sources of Moral Injury among War Veterans: A Qualitative Evaluation,” *Journal of Clinical Psychology* 74, no. 12 (December 2018): 2203.

126. Michelle D. Sherman et al., “Roles of Religion and Spirituality among Veterans who Manage PTSD and Their Partners,” *Psychology of Religion and Spirituality* 10, no. 4 (November 2018): 368.

127. Angela M. Simmons et al., “The Role of Spirituality among Military En Route Care Nurses: Source of Strength or Moral Injury?,” *Critical Care Nurse* 38, no. 2 (April 2018): 61–62.

128. Delin Sun et al., “S80. Individual Differences of Spontaneous Angular Gyrus Brain Activity in Dissociating Moral Injury and Posttraumatic Stress Disorder,” *Biological Psychiatry* 83, no. 9 (May 2018): S377.

129. Christina Alliger-Horn et al., “Moral Injury in German Armed Forces Soldiers with War-related Trauma. Effectiveness of Value-based Cognitive Behavioral Group Therapy,” *Psychotherapeut* 63, no. 4 (July 2018): 322.

failure involves life reflection and intentions to solve conflict situations.¹³⁰ Battles et al. looked at data from 244 service members and veterans to determine that atrocities and betrayal were associated with depression, anxiety, alcohol abuse, and PTSD symptoms.¹³¹ Another study looked at 221 male service members and sexual anxiety due to moral injury, discovering that PMIEs were linked with sexual anxiety beyond general combat exposure.¹³² Brondolo et al. studied 259 Medical Examiner employees for moral injury, concluding that moral injury contributed to negative cognitions that brought about depression and PTSD symptoms.¹³³ Bryan et al. studied 930 National Guard personnel to reaffirm that moral injury and PTSD are distinct concepts, each with their own signs/symptoms.¹³⁴ Currier et al. used 286 veterans to develop and assess the Expressions of Moral Injury Scale – Military Version (EMIS-M) as a valid and reliable method for screening moral injury indicators in the military. The results showed that moral injury is a separate traumatic theme from PTSD and

130. Arndt Büssing, Daniela Rodrigues Recchia, and Loren L. Toussaint, “German Soldiers’ Needs to Clarify Open Aspects in Their Life, to Talk About Fears and Worries, and to Forgive and to Be Forgiven as a Matter of Life Reflection,” *Frontiers in Psychiatry* 9 (November 2018): 582.

131. Allison R. Battles et al., “Moral Injury and PTSD as Mediators of the Associations between Morally Injurious Experiences and Mental Health and Substance Use,” *Traumatology* 24, no. 4 (December 2018): 246.

132. Arjun Bhalla et al. “Emotional Numbing Symptoms Partially Mediate the Association between Exposure to Potentially Morally Injurious Experiences and Sexual Anxiety for Male Service Members,” *Journal of Trauma & Dissociation* 19, no. 4 (August 2018): 417.

133. Elizabeth Brondolo et al., “Work-related Trauma, Alienation, and Posttraumatic and Depressive Symptoms in Medical Examiner Employees,” *Psychological Trauma: Theory, Research, Practice, and Policy* 10, no. 6 (November 2018): 689.

134. Craig J. Bryan et al., “Moral Injury, Posttraumatic Stress Disorder, and Suicidal Behavior Among National Guard Personnel,” *Psychological Trauma: Theory, Research, Practice, and Policy* 10, no. 1 (January 2018): 36.

Major Depressive Disorder.¹³⁵ Drescher et al. examined 543 VA chaplains' understandings of moral injury to argue that chaplain and mental health services are critical.¹³⁶ Evans et al. examined 155 veterans to conclude that higher Potentially Morally Injurious Event exposure led to religious/spiritual struggles as well as higher indicators of PTSD and greater religious/spiritual struggles led to increased anxiety, depression, and PTSD symptoms.¹³⁷ Frankfurt et al. surveyed 310 veterans subject to Military Sexual Trauma (MST) and combat exposure to show how different traumas can be exhibited through multiple moral injury events.¹³⁸ Harris et al. compared Building Spiritual Strength (BSS) and Present Centered Group Therapy (PCGT) to show that BSS was more effective at treating distress in relation to a Higher Power.¹³⁹ In another study, 222 refugees were assessed for moral injury, and the results showed that there might be subtypes of moral injury linked with various mental health outcomes.¹⁴⁰ Koenig et al. looked at 373 combat veterans with PTSD symptoms to show that religious

135. Joseph M. Currier et al., "Development and Evaluation of the Expressions of Moral Injury Scale—Military Version," *Clinical Psychology & Psychotherapy* 25, no. 3 (January 2018): 474.

136. Kent D. Drescher et al., "A Qualitative Examination of VA Chaplains' Understandings and Interventions Related to Moral Injury in Military Veterans," *Journal of Religion and Health* 57, no. 6 (December 2018): 2444.

137. Wyatt R. Evans et al., "Morally Injurious Events and Psychological Distress among Veterans: Examining the Mediating Role of Religious and Spiritual Struggles," *Psychological Trauma: Theory, Research, Practice, and Policy* 10, no. 3 (May 2018): 360.

138. Sheila B. Frankfurt et al., "Mechanisms of Moral Injury Following Military Sexual Trauma and Combat in Post-9/11 US War Veterans," *Frontiers in Psychiatry* 9 (November 2018): 520.

139. J. Irene Harris et al., "Spiritually Integrated Care for PTSD: A Randomized Controlled Trial of "Building Spiritual Strength"," *Psychiatry Research* 267 (September 2018): 420.

140. Joel Hoffman, et al., "The Relationship between Moral Injury Appraisals, Trauma Exposure, and Mental Health in Refugees," *Depression and Anxiety* 35, no. 11 (November 2018): 1030.

involvement was associated with fewer moral injury symptoms, but also an inverse relationship between religious involvement and moral injury was found in those with severe PTSD.¹⁴¹ In a separate study, 427 active duty personnel and veterans who had PTSD symptoms were used to develop the Moral Injury Symptom Scale – Military Version (MISS-M). The results showed robust associations with PTSD, anxiety, and depression symptoms with moral injury.¹⁴² Another study surveyed 427 veterans and active-duty service members to show a strong inverse connection between trust and depression, PTSD, as well as anxiety.¹⁴³ Kopacz et al. surveyed 106 veterans and their awareness of moral injury, showing that they were well aware of moral injury being relevant to their health. However, also they felt that not enough was being done to address it.¹⁴⁴ Lancaster studies 161 military veterans to find that moral emotions, namely shame and guilt facilitate the role of morally injurious experiences on indicators of PTSD.¹⁴⁵ In another study, 182 combat veterans were assessed with the Moral Injury Events Scale (MIES) and the Moral Injury Questionnaire-Military Version (MIQ-M) to show similar correlations between the two scales and adverse psychosocial variables, but dissimilar connections with exposure to com-

141. Harold G. Koenig et al., “Moral Injury and Religiosity in US Veterans with Posttraumatic Stress Disorder Symptoms,” *The Journal of Nervous and Mental Disease* 206, no. 5 (May 2018): 325.

142. Harold G. Koenig et al., “Screening for Moral Injury: The Moral Injury Symptom Scale–Military Version Short Form,” *Military Medicine* 183, no. 11-12 (November 2018): e659.

143. Marek S. Kopacz, Donna Ames, and Harold G. Koenig, “Association between Trust and Mental, Social, and Physical Health Outcomes in Veterans and Active-duty Service Members with Combat-related PTSD Symptomatology,” *Frontiers in Psychiatry* 9 (September 2018): 408.

144. Marek S. Kopacz et al., “Examining Moral Injury Awareness in a Clinical Setting,” *Journal of Military and Veterans Health* 26, no. 1 (January 2018): 11.

145. Steven Lloyd Lancaster, “Negative Outcomes after Morally Injurious Experiences: A Replication and Extension,” *Psychological Trauma: Theory, Research, Practice, and Policy* 10, no. 4 (July 2018): 456.

bat.¹⁴⁶ One hundred and ninety one Israeli combat veterans were assessed and illustrated how veterans exposed to moral injury are susceptible not only to suicidal behaviors but also other mental health concerns.¹⁴⁷ Eighty Dutch veterans deployed to Bosnia were assessed and showed that societal misrecognition (public criticism or admiration) might directly and/or indirectly contribute to moral injury.¹⁴⁸ Data from 4,854 Canadian military personnel was used to show that contact with Potentially Morally Injurious Events (PMIEs) led to a higher likelihood of having PTSD and Adverse Mental Health Outcomes (AMHO), with feeling accountable for the death of a comrade having the strongest association with PTSD and AMHO.¹⁴⁹ Nickerson et al. studied 134 refugees in Switzerland and found that diverse categories of moral injury assessments might be linked with different psychological results.¹⁵⁰ 356 Air Force personnel assigned to intelligence units reported low PTSD symptoms, but some reported struggling with negative

146. Steven L. Lancaster and J. Irene Harris, "Measures of Morally Injurious Experiences: A Quantitative Comparison," *Psychiatry Research* 264 (June 2018): 15–16.

147. Yossi Levi-Belz and Gadi Zerach, "Moral Injury, Suicide Ideation, and Behavior among Combat Veterans: The Mediating Roles of Entrapment and Depression," *Psychiatry Research* 269 (November 2018): 508–510.

148. Tine Molendijk, "Moral Injury in Relation to Public Debates: The Role of Societal Misrecognition in Moral Conflict-colored Trauma among Soldiers," *Social Science & Medicine* 211 (August 2018): 314.

149. Anthony Nasarov, D. Fikretoglu, A. Liu, M. Thompson, and M. A. Zamorski, "Greater Prevalence of Posttraumatic Stress Disorder and Depression in Deployed Canadian Armed Forces Personnel at Risk for Moral Injury," *Acta Psychiatrica Scandinavica* 137, no. 4 (April 2018): 342.

150. Angela Nickerson et al., "A Longitudinal Investigation of Moral Injury Appraisals Amongst Treatment-Seeking Refugees," *Frontiers in Psychiatry* 9 (December 2018): 667.

cognitions about events in their career.¹⁵¹ Youssef et al. examined 120 veterans to show that religious involvement did not have an overall effect on the relationship between moral injury and PTSD except for those veterans not deployed to the Middle-East.¹⁵² In a separate study, 464 veterans with PTSD were asked about Spiritually-Oriented Therapy (SOT), finding that many veterans are interested in SOT, warranting the development and testing of such treatments.¹⁵³ Zerach and Levi-Belz studied the connection between Posttraumatic Stress Disorder Symptoms (PTSS) and Potentially Morally Injurious Events (PMIEs) in 191 Israeli combat veterans. The results show that PMIEs, especially betrayal-based events, are related to PTSS with depression, guilt, shame, and self-disgust serving as possible links between PMIEs and PTSS.¹⁵⁴

Review – 2019

EBSCO and Web of Science databases from 2019 revealed 24 theoretical articles, 12 qualitative articles, and 25 quantitative articles for a total of 61 articles.

Theoretical research from 2019 covered various new topics in moral injury and supporting findings from previous years. Griffin et al. conducted a review of moral injury research and found that moral injury has a “unique pathology and trajectory relative to other trauma types”,

151. Alan D. Ogle, Reed Reichwald, and J. Brian Rutland, “Psychological Impact of Remote Combat/Graphic Media Exposure among US Air Force Intelligence Personnel,” *Military Psychology* 30, no. 6 (November 2018): 476.

152. Nagy A. Youssef et al., “Moral Injury, Posttraumatic Stress Disorder, and Religious Involvement among US Veterans,” *Annals of Clinical Psychiatry: Official Journal of the American Academy of Clinical Psychiatrists* 30, no. 2 (May 2018): 113.

153. Nagy A. Youssef et al., “Interest among Veterans in Spiritually-oriented Therapy for Inner conflict/Moral Injury in the Setting of PTSD,” *Ann Clin Psychiatry* 30 (November 2018): 262.

154. Gadi Zerach and Yossi Levi-Belz, “Moral Injury Process and its Psychological Consequences among Israeli Combat Veterans,” *Journal of Clinical Psychology* 74, no. 9 (September 2018): 1526.

no precise classification of moral injury in psychiatric disorders exists, a need for continual psychometric expansion of moral injury measures, and that contact with Potentially Morally Injurious Events (PMIEs) may not always lead to moral injury.¹⁵⁵ Another literature review showed that further research is required to assess clinically important change scores and cutoff scores in symptoms of moral injury.¹⁵⁶ Doebling argues that “spiritual care commences with lamenting the shared anguish of moral injury using intrinsically meaningful spiritual practices to help veterans compassionately accept the emotions arising from moral injury so intensely felt in their bodies.”¹⁵⁷ Farnsworth proposes evaluating “descriptive and prescriptive cognitions in moral injury and how it can lead to effective treatment planning”.¹⁵⁸ In a separate article, an argument is made that forthcoming research must go beyond defining content-levels and instead focus on the process that gives rise to them and the philosophical, empirical, and professional questions that they imply.¹⁵⁹ Farnsworth, Borges, and Walser argue that “a functional contextual approach to moral injury links with evolutionary science, captures several points of examination, is thrifty, serves various populations, directly apprises interventions, pro-

155. Brandon J. Griffin et al., “Moral Injury: An Integrative Review,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 350.

156. Harold G. Koenig, Nagy A. Youssef, and Michelle Pearce, “Assessment of Moral Injury in Veterans and Active-duty Military Personnel with PTSD: A Review,” *Frontiers in Psychiatry* 10 (June 2019): 1.

157. Carrie Doebling, “Military Moral Injury: An Evidence-based and Intercultural Approach to Spiritual Care,” *Pastoral Psychology* 68, no. 1 (February 2019): 15.

158. Jacob K. Farnsworth, “Is and Ought: Descriptive and Prescriptive Cognitions in Military-related Moral Injury,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 373.

159. Jacob K. Farnsworth, Lauren M. Borges, and Jason A. Nieuwsma, “What Ought We to Do With “Thick Terms”? A Response to Frankfurt & Coady’s “Bringing Philosophy to Bear on Moral Injury and Posttraumatic Stress Disorder Construct Validation,” *Journal of Traumatic Stress* 32, no. 4 (August 2019): 642.

motes moral humility, and reduces stigma.”¹⁶⁰ Frankfurt and Coady call for “a trauma theory that accounts for descriptive, evaluative, cognitive, as well as affective elements of traumatic experiences”.¹⁶¹ Hansen examined moral injury as the shattering of faith and the moral disappointment by the gruesome reality of warfare.¹⁶² Geringer and Wiener explore how Jewish religious texts can be used to deepen an understanding of moral injury, regardless of faith.¹⁶³ Fawson argues that “witness poetry can help recognize the significant losses of moral injury in ways no other genre of literature can”.¹⁶⁴ Heston and Pahang argue that moral injuries require different treatments than burnout within the healthcare setting.¹⁶⁵ Rozario advocates for reducing institutional barriers, rapid access to resources, and moral distress associated with healthcare workers.¹⁶⁶ Hosein argues that Muslim military personnel are subject to moral stress and injury due to

160. Jacob K. Farnsworth, Lauren M. Borges, and Robyn D. Walser, “Moving Moral Injury Into the Future With Functional Contextualism: A Response to Nash’s “Unpacking Two Models for Understanding Moral Injury”(August 2019),” *Journal of Traumatic Stress* 32, no. 4 (August 2019): 633.

161. Sheila B. Frankfurt and Alanna Coady, “Bringing Philosophy to Bear on Moral Injury and Posttraumatic stress Disorder Construct Validation: Commentary on Farnsworth (2019),” *Journal of Traumatic Stress* 32, no. 4 (August 2019): 639.

162. Christopher Hansen, “Glimmers of the Infinite: The Tragedy of Moral Injury,” *Dialog* 58, no. 1 (March 2019): 64.

163. Kim S. Geringer and Nancy H. Wiener, “Insights into Moral Injury and Soul Repair from Classical Jewish Texts,” *Pastoral Psychology* 68, no. 1 (February 2019): 59.

164. Shawn Fawson, “Sustaining Lamentation for Military Moral Injury: Witness Poetry that Bears the Traces of Extremity,” *Pastoral Psychology* 68, no. 1 (February 2019): 31.

165. Thomas F. Heston and Joshuel A. Pahang, “Moral Injury or Burnout?,” *Southern Medical Journal* 112, no. 9 (September 2019): 483.

166. Duncan Rozario, “Burnout, Resilience and Moral Injury: How the Wicked Problems of Health Care Defy Solutions, yet Require Innovative Strategies in the Modern Era,” *Canadian Journal of Surgery* 62, no. 4 (August 2019): E6.

their religion being ridiculed and distorted.¹⁶⁷ Litz and Kerig propose that research should continue to explore parameters of problems that need to be addressed, including exposure and outcomes, and psychological and biological research of ethics and moral emotions.¹⁶⁸ Molendijk looks at the “role of political practices in the onset of moral injury” and how political leadership remained silent on direct contributions to moral injury.¹⁶⁹ Moon describes how faith communities can respond to moral injury in the military by offering support and resources.¹⁷⁰ Ramsay examines the potential use of ritual for practices of care as resources of healing from moral injury.¹⁷¹ Napoli et al. warn oral historians to be cognizant of the stories Vietnam veterans relate to moral injury that can be traumatic to the historians.¹⁷² Nash argues that trauma is not exclusively the fear-evoking trauma of sexual assault, but that moral injury includes psychological trauma.¹⁷³ Neria and Pickover advocate that moral injury outcomes beyond PTSD should be explored to include links to alcohol misuse and self-injurious

167. Shareda Hosein, “Muslims in the US Military: Moral Injury and Eroding Rights,” *Pastoral Psychology* 68, no. 1 (February 2019): 77.

168. Brett T. Litz and Patricia K. Kerig, “Introduction to the Special Issue on Moral Injury: Conceptual Challenges, Methodological Issues, and Clinical Applications,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 341.

169. Tine Molendijk, “The Role of Political Practices in Moral Injury: A Study of Afghanistan Veterans,” *Political Psychology* 40, no. 2 (April 2019): 261.

170. Zachary Moon, ““Turn Now, My Vindication Is at Stake”: Military Moral Injury and Communities of Faith,” *Pastoral Psychology* 68, no. 1 (February 2019): 93.

171. Nancy J. Ramsay, “Moral Injury as Loss and Grief with Attention to Ritual Resources for Care,” *Pastoral Psychology* 68, no. 1 (February 2019): 107.

172. Philip F. Napoli et al., “Oral History, Moral Injury, and Vietnam Veterans,” *The Oral History Review* (November 2019): 71.

173. William P. Nash, “Commentary on the Special Issue on Moral Injury: Unpacking Two Models for Understanding Moral Injury,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 465.

behaviors.¹⁷⁴ Yandell argues that moral injury is about human relationships and conscience.¹⁷⁵ Wiinikka-Lydon argues that a more inclusive view of moral injury to include institutional and social violence and injustices.¹⁷⁶ Doehring and Ramsay reiterated previous research on moral injury in the military.¹⁷⁷ Liebert also supported previous research that spiritual practices can heal wounded spirits.¹⁷⁸

Qualitative research explored new treatment methods, prevalence of moral injury in various militaries, and other civilian groups. Barnes, Hurley, and Taber used functional Magnetic Resonance Imaging (fMRI) scans to illustrate that neural correlates of PTSD and moral injury differ.¹⁷⁹ Smigelsky et al. looked at 212 veterans, discovering that those with potential moral injury had higher PTSD, depression, and trauma-related guilt with lower forgiveness levels.¹⁸⁰ Battaglia et al. assessed 33 Canadian Armed Forces personnel and found a significant connection between

174. Yuval Neria and Alison Pickover, "Commentary on the Special Issue on Moral Injury: Advances, Gaps in Literature, and Future Directions," *Journal of Traumatic Stress* 32, no. 3 (June 2019): 459.

175. Michael Yandell, "Moral Injury and Human Relationship: A Conversation," *Pastoral Psychology* 68, no. 1 (February 2019): 3.

176. Joseph Wiinikka-Lydon, "Mapping Moral Injury: Comparing Discourses of Moral Harm," *The Journal of Medicine and Philosophy: A Forum for Bioethics and Philosophy of Medicine*, 44, no. 2, (March 2019): 175.

177. Carrie Doehring and Nancy J. Ramsay, "Introduction to the Special Issue on Military Moral Injury," *Pastoral Psychology* 68, no. 1 (February 2019): 1–2.

178. Elizabeth A. Leibert, "Accessible Spiritual Practices to Aid in Recovery from Moral Injury," *Pastoral Psychology* 68, no. 1 (February 2019): 41.

179. Haleigh A. Barnes, Robin A. Hurley, and Katherine H. Taber, "Moral Injury and PTSD: Often Co-occurring yet Mechanistically Different," *The Journal of Neuropsychiatry and Clinical Neurosciences* 31, no. 2 (April 2019): 101.

180. Melissa A. Smigelsky et al., "Latent Profile Analysis Exploring Potential Moral Injury and Posttraumatic Stress Disorder among Military Veterans," *Journal of Clinical Psychology* 75, no. 3 (March 2019): 499.

childhood emotional abuse and moral injury in adulthood.¹⁸¹ Borges looked at the effectiveness of Acceptance and Commitment Therapy for Moral Injury (ACT-MI) in a service member and found that they reported substantial variations appealing to their moral pain and values over the course of treatment.¹⁸² In a separate study, 14 combat veterans who underwent PTSD Evidence-Based Psychotherapy treatments, showing how moral injury was important to the treatment of PTSD.¹⁸³ Burkman, Purcell, and Maguen presented ten providers from veteran medical centers with materials for Impact of Killing (IOK) treatments, receiving positive input for (IOK) as an acceptable and feasible approach in addressing moral injury in combat veterans.¹⁸⁴ One study looked at 33 women living with HIV/AIDS (WLWHA) and showed that these women are more likely to survive the negative impacts of moral injury when they received adequate interpersonal, government, and societal support.¹⁸⁵ Held et al. interviewed eight war-zone veterans and recommended exploring the precise context in

181. Anthony M. Battaglia et al., “The Relation between Adverse Childhood Experiences and Moral Injury in the Canadian Armed Forces,” *European Journal of Psychotraumatology* 10, no. 1 (December 2019): 1.

182. Lauren M. Borges, “A Service Member’s Experience of Acceptance and Commitment Therapy for Moral Injury (ACT-MI) via Telehealth: “Learning to Accept My Pain and Injury by Reconnecting with My Values and Starting to Live a Meaningful Life”,” *Journal of Contextual Behavioral Science* 13 (July 2019): 134.

183. Lauren M. Borges et al., “Veterans’ Perspectives on Discussing Moral Injury in the Context of Evidence-based Psychotherapies for PTSD and Other VA Treatment,” *Journal of Clinical Psychology* 76, no. 3 (March 2019): 389.

184. Kristine Burkman, Natalie Purcell, and Shira Maguen, “Provider Perspectives on a Novel Moral Injury Treatment for Veterans: Initial Assessment of Acceptability and Feasibility of the Impact of Killing Treatment Materials,” *Journal of Clinical Psychology* 75, no. 1 (January 2019): 79.

185. Iim Halimatusa’diyah, “Moral Injury and the Struggle for Recognition of Women Living with HIV/AIDS in Indonesia,” *International Sociology* 34, no. 6 (November 2019): 696.

which the Morally Injurious Event (MIE) occurred as well as the veterans' appraisal of the MIE in the context it occurred in.¹⁸⁶ Kalkman and Moledijk interviewed two Dutch Border Guards to illustrate the strategic ambiguity in moral injury.¹⁸⁷ Pyne, Rabalais, and Sullivan interviewed 11 veterans, 28 clergy, and 12 mental health clinicians and found that all three groups acknowledged the chaplain as the ideal liaison between mental health clinicians and community clergy.¹⁸⁸ Starnino et al. compiled interviews of individuals who finished a spiritually-integrated group intervention for PTSD in the course of moral and spiritual reparation, showing that participants found meaning in their trauma, but there need to be additional treatment options for moral and spiritual trauma.¹⁸⁹ Sullivan and Starnino interviewed 23 veterans and concluded that additional treatment selections that address spiritual and moral aspects are needed.¹⁹⁰ Six British veterans recounted their experiences with moral injury and subsequent treatments, and the researchers concluded that there is a more significant necessity for research on current treatment effectiveness.¹⁹¹

186. Philip Held et al., "“I knew it was Wrong the Moment I got the Order”: A Narrative Thematic Analysis of Moral Injury in Combat Veterans,” *Psychological Trauma: Theory, Research, Practice, and Policy* 11, no. 4 (May 2019): 396.

187. Jori Pascal Kalkman and Tine Molendijk, “The Role of Strategic Ambiguity in Moral Injury: A Case Study of Dutch Border Guards Facing Moral Challenges,” *Journal of Management Inquiry* (December 2019): 1.

188. Jeffrey M. Pyne, Aline Rabalais, and Steve Sullivan, “Mental Health Clinician and Community Clergy Collaboration to Address Moral Injury in Veterans and the Role of the Veterans Affairs Chaplain,” *Journal of Health Care Chaplaincy* 25, no. 1 (January 2019): 1.

189. Vincent R. Starnino et al., “Moral Injury, Coherence, and Spiritual Repair,” *Mental Health, Religion & Culture* 22, no. 1 (January 2019): 99.

190. W. Patrick Sullivan and Vincent R. Starnino, ““Staring into the Abyss”: Veterans’ Accounts of Moral Injuries and Spiritual Challenges,” *Mental Health, Religion & Culture* 22, no. 1 (January 2019): 25.

191. Victoria Williamson, Neil Greenberg, and Dominic Murphy, “Moral Injury in UK Armed Forces Veterans: A Qualitative Study,” *European Journal of Psychotraumatology* 10, no. 1 (December 2019): 1.

Quantitative research from 2019 explored police officers, healthcare workers, students, and military personnel with moral injury. Stancel et al. assessed 454 police officers of the National Police of Finland, and the outcomes showed that “greater levels of compassion fatigue and moral injury were associated with lower levels of compassion satisfaction”.¹⁹² Ames et al. evaluated 570 veterans and active-duty service and found that religiosity was unconnected to suicide risk, but that moral injury is “strongly connected with risk factors for suicide with PTSD symptoms”.¹⁹³ Wilt et al. examined 178 veterans who reported religious/spiritual struggles and found that those with a stronger religious-oriented system were more likely to undergo more positive spiritual and struggle-related outcomes.¹⁹⁴ Sun et al. examined the neurological responses of moral injury and PTSD, discovering that both have different neural responses through Amplitude of Low-Frequency Fluctuation.¹⁹⁵ Battles et al. looked at 380 combat veterans and concluded that Potentially Morally Injurious Experiences (PMIEs) and spiritual wounds were connected with increased alcohol use.¹⁹⁶ Breuninger et al. looked at 178 veterans with religious/spiritual (r/s) struggles and found that r/s struggles may constitute part of the presenting problems in veterans and should be addressed with chaplains and religious leaders

192. Karolina Stancel et al., “Police Moral Injury, Compassion Fatigue, and Compassion Satisfaction: A Brief Report,” *Salus Journal* 7, no. 1 (2019): 42.

193. Donna Ames et al., “Moral Injury, Religiosity, and Suicide Risk in US Veterans and Active-Duty Military with PTSD Symptoms,” *Military Medicine* 184, no. 3-4 (March 2019): e271.

194. Joshua A. Wilt et al., “Spiritual Transformation among Veterans in Response to a Religious/Spiritual Struggle,” *Psychology of Religion and Spirituality* 11, no. 3 (August 2019): 266.

195. Delin Sun et al., “Resting-state Brain Fluctuation and Functional Connectivity Dissociate Moral Injury from Posttraumatic Stress Disorder,” *Depression and Anxiety* 36, no. 5 (May 2019): 442.

196. Allison R. Battles et al., “Associations among Exposure to Potentially Morally Injurious Experiences, Spiritual Injury, and Alcohol Use among Combat Veterans,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 405.

in the community.¹⁹⁷ Corona et al. examined 564 veterans and concluded that veterans who report higher levels of morally injurious experiences concerning wrongdoings by others and betrayal experiences in the company of higher levels of global meaning (general beliefs, goals, a sense of purpose) are less likely to experience suicidal ideation.¹⁹⁸ Another study assessed 503 participants for shame and guilt, showing that shame and guilt are extremely overlying variables that predict several of the same psychological variables.¹⁹⁹ 916 war zone veterans were assessed, and researchers found that those with severe spiritual struggles attributed them with a higher power. The researchers determined that it is conceivable to differentiate “between psychological and spiritual subtypes of moral injury according to war zone veterans’ religious or spiritual backgrounds”.²⁰⁰ Davies et al. looked at 244 military personnel who deployed and found that moral injury could be positively associated with PTSD, alcohol misuse, and substance abuse.²⁰¹ Dedert et al. assessed 50 veterans with PTSD for guilt cognitions linked with nightmares, finding that the relationship

197. Matthew M. Breuninger et al., “The Invisible Battle: A Descriptive Study of Religious/Spiritual Struggles in Veterans,” *Military Psychology* 31, no. 6 (November 2019): 433.

198. Christopher D. Corona et al., “Meaning in Life Moderates the Association between Morally Injurious Experiences and Suicide Ideation among US Combat Veterans: Results from the National Health and Resilience in Veterans Study,” *Psychological Trauma: Theory, Research, Practice, and Policy* 11, no. 6 (May 2019): 614.

199. Sarah E. Steinmetz, Matt J. Gray, and Joshua D. Clapp, “Development and Evaluation of the Perpetration-Induced Distress Scale for Measuring Shame and Guilt in Civilian Populations,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 437.

200. Joseph M. Currier, Joshua D. Foster, and Steven L. Isaak, “Moral Injury and Spiritual Struggles in Military Veterans: A Latent Profile Analysis,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 393.

201. Rachel L. Davies et al., “Moral Injury, Substance Use, and Posttraumatic Stress Disorder Symptoms among Military Personnel: An Examination of Trait Mindfulness as a Moderator,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 414.

between combat experience with trauma-related sleep disturbances is pointedly predisposed by apparent guilt linked to the traumatic event. 191 Israeli combat veterans were assessed, showing that “perceived social support may play a unique role in the connection between PMIEs and the use of different substances”.²⁰² In a separate study, 191 Israeli combat veterans were assessed, showing that uncertainty played a moderating role in the connection between moral injury and suicide.²⁰³ Two hundred three military veterans were surveyed, and the results show that self-compassion meaningfully moderated the relationship between experiencing MIEs and PTSD, depression severity, and self-harm.²⁰⁴ Two hundred twenty five British Army veterans who served between 1945 and 2000 were interviewed, showing greater acceptance of post-traumatic illness in the military in the 1980s and 1990s.²⁰⁵ Kelley et al. assessed 156 male veterans and 100 female veterans for sex differences in substance usage and mental health symptoms due to moral injury. The results show that sex differences were not related to substance use and mental health, although moral injury expressively foretold all negative mental health symptoms

202. Daniel Feingold, Gadi Zerach, and Yossi Levi-Belz, “The Association Between Moral Injury and Substance Use Among Israeli Combat Veterans: the Mediating Role of Distress and Perceived Social Support,” *International Journal of Mental Health and Addiction* 17, no. 2 (April 2019): 217.

203. Gadi Zerach and Yossi Levi-Belz, “Intolerance of Uncertainty Moderates the Association Between Potentially Morally Injurious Events and Suicide Ideation and Behavior Among Combat Veterans,” *Journal of traumatic stress* 32, no. 3 (June 2019): 424.

204. Shannon R. Forkus, Juliana G. Breines, and Nicole H. Weiss, “Morally Injurious Experiences and Mental Health: The Moderating Role of Self-compassion,” *Psychological Trauma: Theory, Research, Practice, and Policy* 11, no. 6 (September 2019): 630.

205. Edgar Jones, Kamaldeep Bhui, and Alberta Engelbrecht, “The Return of the Traumatized Army Veteran: A Qualitative Study of UK Ex-servicemen in the Aftermath of War, 1945 to 2000,” *International Review of Psychiatry* 31, no. 1 (January 2019): 14.

and alcohol abuse.²⁰⁶ Lancaster and Miller surveyed 120 combat veterans and concluded that “religious functioning and moral decision making are important aspects of the experience of moral injury”.²⁰⁷ In a different study, 189 combat wounded veterans were assessed for moral injury and suicidality, showing that mindfulness, social connectedness, and overidentification are relevant to understanding veterans’ increased or decreased susceptibility to display suicidality when suffering from moral injury.²⁰⁸ Eighty-four veterans were assessed for religiosity and spirituality, and the results show that there were no significant correlations between moral injury and religiosity or spirituality.²⁰⁹ Starnino et al. evaluated 24 veterans who participated in a study to assess how spirituality affected military veterans. The findings suggest that all participants reported experiencing significant reductions in PTSD, spiritual injury, and negative religious coping.²¹⁰ Currier et al. studied 182 veterans and supported previous research that moral injury should be assessed in those who struggle with PTSD, particularly

206. Michelle L. Kelley et al., “Sex Differences in Mental Health Symptoms and Substance Use and Their Association with Moral Injury in Veterans,” *Psychological Trauma: Theory, Research, Practice, and Policy* 11, no. 3 (March 2019): 337.

207. Steven L. Lancaster and Maggie Miller, “Moral Decision Making, Religious Strain, and the Experience of Moral Injury,” *Psychological Trauma: Theory, Research, Practice, and Policy* 12, no. 2 (September 2019):156.

208. Michelle L. Kelley et al., “Moral Injury and Suicidality among Combat-wounded Veterans: The Moderating Effects of Social Connectedness and Self-compassion,” *Psychological Trauma: Theory, Research, Practice, and Policy* 11, no. 6 (September 2019): 621.

209. Marek S. Kopacz et al., “A Preliminary Study Examining the Prevalence and Perceived Intensity of Morally Injurious Events in a Veterans Affairs Chaplaincy Spiritual Injury Support Group,” *Journal of Health Care Chaplaincy* 25, no. 2 (April 2019): 76.

210. Vincent R. Starnino et al., “Preliminary Report on a Spiritually-Based PTSD Intervention for Military Veterans,” *Community Mental Health Journal* 55, no. 7 (October 2019): 1114.

with moral distress.²¹¹ One study tested the Moral Injury Scales for Youth (MISY) on 473 students and found it a psychometrically reliable and valid measure of youth moral injury.²¹² Hoffman et al. assessed 221 refugees for moral injury, showing various outcome variables for moral injury due to traumatic events.²¹³ Yeterian et al. looked at 26 care providers for exposure to morally injurious experiences, discovering that “outcomes linked with acts of commission/omission and acts involving others’ transgressions may overlap”.²¹⁴

Review – 2020

For this final year, EBSCO and Web of Science databases contained 17 theoretical, six qualitative, and 12 quantitative articles for a total of 35 different research articles.

This year’s theoretical articles mostly focused on moral injury in healthcare professionals with some research on the military. The Expression of Moral Injury Scale-Military Version-Short Form (EMIS-M-SF) was found to be a valid and reliable assessment of overall outcomes to possible moral injury; all previous screening tools explored symptoms and causes, not possible outcomes of moral injury.²¹⁵ One article related moral

211. Joseph M. Currier et al., “Temporal Associations between Moral Injury and Posttraumatic Stress Disorder Symptom Clusters in Military Veterans,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 382.

212. Shannon D. Chaplo, Patricia K. Kerig, and Cecilia Wainryb, “Development and Validation of the Moral Injury Scales for Youth,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 448.

213. Joel Hoffman et al., “A Latent Profile Analysis of Moral Injury Appraisals in Refugees,” *European Journal of Psychotraumatology* 10, no. 1 (December 2019): 1.

214. Julie D. Yeterian et al., “Defining and Measuring Moral Injury: Rationale, Design, and Preliminary Findings from the Moral Injury Outcome Scale Consortium,” *Journal of Traumatic Stress* 32, no. 3 (June 2019): 363.

215. Joseph M. Currier, Steven L. Isaak, and Ryon C. McDermott, “Validation of the Expressions of Moral Injury Scale-Military Version-Short Form,” *Clinical Psychology & Psychotherapy* 27, no. 1 (January 2020): 61–62.

injury in the military to care for physicians experiencing burnout.²¹⁶ Multiple research articles explored how the COVID-19 pandemic caused moral injury in health care providers and workers.²¹⁷ A separate study studied the prevalence of moral injury in civilians and health professionals.²¹⁸ Another study argued that moral injuries unaddressed by ethical codes in healthcare needs more research and interventions.²¹⁹ One research article examined how the COVID-19 pandemic caused moral injury in religious leaders.²²⁰ Koenig et al. argued that religion could be an asset or a liability for those suffering from moral injury and how it needs to be addressed in clinical

216. David William Alexander, “Walking Together in Exile: Medical Moral Injury and the Clinical Chaplain,” *Journal of Pastoral Care & Counseling* 74, no. 2 (June 2020): 82.

217. Lauren M. Borges et al., “A Commentary on Moral Injury among Health Care Providers during the COVID-19 Pandemic,” *Psychological Trauma: Theory, Research, Practice, and Policy* 12, no. S1 (2020): S138.; Niek Kok et al, “Recognizing and Supporting Morally Injured ICU Professionals during the COVID-19 Pandemic,” *Intensive Care Medicine* 46 (May 2020):1653.; Christoph Kröger, “Shattered Social Identity and Moral Injuries: Work-related Conditions in Health Care Professionals during the COVID-19 Pandemic,” *Psychological Trauma: Theory, Research, Practice, and Policy* 12, no. S1 (August 2020): S156.; Shira Maguen and Matt A. Price, “Moral Injury in the Wake of Coronavirus: Attending to the Psychological Impact of the Pandemic,” *Psychological Trauma: Theory, Research, Practice, and Policy* 12, no. S1 (August 2020): S131.

218. Harold G. Koenig and Faten N. Al-Zaben, “Moral Injury from War and Other Severe Trauma,” *Asia-Pacific Psychiatry* (January 2020): e12378

219. Robert P. Lennon, Philip G. Day, and Janelle Marra, “Recognizing Moral Injury: Toward Legal Intervention for Physician Burnout,” *Hastings Center Report* 50, no. 3 (June 2020): 1.

220. Talya Greene, Michael AP Bloomfield, and Jo Billings, “Psychological Trauma and Moral Injury in Religious Leaders during COVID-19,” *Psychological Trauma: Theory, Research, Practice, and Policy* 12, no. S1 (June 2020): S143–S145.

practice.²²¹ Mash, Naifeh, and Gonzalez delved more into shame and its role in mental health in the military, specifically suicidality and depression.²²² Litz looked at any moral emotions and all possible dimensions of responses to exposure to PMIEs.²²³ Pederson explores how moral injury is illustrated throughout the field of literary trauma studies. Richardson et al. conducted a literature review of moral injury definitions, finding 12 key definitions with nine different themes, showing how diverse moral injury definitions are.²²⁴ Zalta and Held reiterated previous research that shame and guilt are distinct facets of moral injury and how they can be used to distinguish between moral distress and moral injury.²²⁵ Jamieson et al. reiterated previous research that moral injury can result in higher suicide rates in Australian veterans.²²⁶ Stovall, Hansen, and van Ryn reiterated previous research that healthcare moral injury needs more training and intervention

221. Harold G. Koenig, Faten Al-Zaben, and Tyler J. VanderWeele, "Religion and Psychiatry: Recent Developments in Research," *BJPsych Advance* 28, no. 7 (September 2020): 1–3.

222. Holly B. Herberman Mash, James A. Naifeh, and Oscar I. Gonzalez, "Shame: Conceptual Complexity and Influence on Mental Health in Military Populations," *Psychiatry* 83, no. 1 (January 2020): 40.

223. Brett T. Litz, "Response to Zalta and Held's "Commentary on the Special Issue on Moral Injury: Leveraging Existing Constructs to Test the Heuristic Model of Moral Injury"." *Journal of Traumatic Stress* 33, no. 4 (June 2020):600–602.

224. Natalie M. Richardson et al., "Defining Moral Injury among Military Populations: A Systematic Review," *Journal of Traumatic Stress* 3, no. 4 (June 2020): 575.

225. Alyson K. Zalta and Philip Held, "Commentary on the Special Issue on Moral Injury: Leveraging Existing Constructs to Test the Heuristic Model of Moral Injury." *Journal of Traumatic Stress* 33, no. 4 (June 2020): 598.

226. Nikki Jamieson, Kim Usher, Myfanwy Maple, and Dorothy Ratnarajah, "Invisible Wounds and Suicide: Moral Injury and Veteran Mental Health," *International Journal of Mental Health Nursing* 29, no. 2 (March 2020):105–107.

programs.²²⁷

Qualitative research primarily focused on the military with one article on women with moral injury in the Akan culture. Fleming presented a case study of the usage of Warrior's Journey Intervention (WJI), a chaplain-led intervention designed to invoke hope, meaning, and guilt through trauma recovery.²²⁸ Fletcher et al. interviewed 22 veterans to highlight the connection between spiritual and emotional well-being through religious and spiritual struggles.²²⁹ Haight et al. explored how 21 widows in the Akan culture were empowered through their community support for healing moral injury.²³⁰ Keller et al. interviewed 14 combat veterans and found that mental health concerns, meaning-making, and mortality consideration appear to characterize their deployment experiences.²³¹ Starnino et al. looked at 18 participants in a spiritually integrated intervention called Search for Meaning and found that it is a specialized intervention that can supplement PTSD treatments.²³² Williamson et al. interviewed 30 British

227. Mady Stovall, Lissi Hansen, and Michelle van Ryn, "A Critical Review: Moral Injury in Nurses in the Aftermath of a Patient Safety Incident," *Journal of Nursing Scholarship* 52, no. 3 (May 2020): 320.

228. Wesley H. Fleming, "The Warrior's Journey Intervention: A Chaplain-Led Motivational, Preparatory Exercise for Enhancing Treatment Success," *Journal of Pastoral Care & Counseling* 74, no. 2 (June 2020): 99.

229. Terri L. Fletcher et al., "Characterizing Religious and Spiritual Struggles in US Veterans: A Qualitative Study," *Spirituality in Clinical Practice* 7, no. 3 (September 2020): 162.

230. Wendy Haight et al., "Moral Injury among Akan Women: Lessons for Culturally Sensitive Child Welfare Interventions," *Children and Youth Services Review* 110 (March 2020): 104768.

231. Emily M. Keller et al., "A Qualitative Analysis of Meaning-Making and Mental Health among OIF/OEF Veterans," *Journal of Clinical Psychology* 76 no. 10 (May 2020): 1851.

232. Vincent R. Starnino et al., "Like a Blanket Over a Fire: Group Work and Spiritual Repair in Military Trauma," *Families in Society* 101, no. 1 (January 2020): 95.

veterans and found that veterans can simultaneously be morally injured and traumatized by the same event.²³³

Quantitative research focused mainly on the military with one study on moral injury in education professionals. Chesnut et al. reiterated previous research by studying 9,566 veterans and showing how self- and other-directed moral injury reactions have different effects.²³⁴ Koenig et al. assessed 591 active-duty service members and veterans for moral injury and PTSD, showing some overlap between the two with negative emotions and cognitions.²³⁵ 191 Israeli combat veterans were assessed, showing that “self-forgiveness and social support are essential contributors to lower suicide ideation levels among veterans with PMIE exposure”.²³⁶ In a separate study, 191 Israeli combat veterans were assessed and showed that PMIEs, especially betrayal, are linked to PTSD directly through depressive indicators.²³⁷ Mantri et al. assessed 181 health professionals to show that the Moral Injury Symptom Scale-Healthcare Professionals version (MISS-HP) was a “reliable and valid measure for assessing moral injury

233. Victoria Williamson et al., “The Impact of Trauma Exposure and Moral Injury on UK Military Veterans: A Qualitative Study,” *European Journal of Psychotraumatology* 11, no. 1 (January 2020): 1704554.

234. Ryan P. Chesnut et al., “Moral Injury and Social Well-Being: A Growth Curve Analysis,” *Journal of Traumatic Stress* 33, no. 4 (August 2020): 587.

235. Harold G. Koenig et al., “Examining the Overlap between Moral Injury and PTSD in US Veterans and Active-duty Military,” *The Journal of Nervous and Mental Disease* 208, no. 1 (January 2020): 7.

236. Yossi Levi-Belz, Neta Dichter, and Gadi Zerach, “Moral Injury and Suicide Ideation among Israeli Combat Veterans: The Contribution of Self-forgiveness and Perceived Social Support,” *Journal of Interpersonal Violence* (January 2020): 2.

237. Yossi Levi-Belz, Talya Greene, and Gadi Zerach, “Associations between Moral Injury, PTSD Clusters, and Depression among Israeli Veterans: A Network Approach,” *European Journal of Psychotraumatology* 11, no. 1 (December 2020): 1736411.

in health care professionals”.²³⁸ Nazarov et al. assessed 4,854 Canadian veterans and found that those with moral injury are less likely to seek specialized mental health professionals, raising concerns that veterans avoid military health services.²³⁹ Nillni et al. assessed 318 women who became pregnant after leaving the military and found that PTSD and moral injury are connected to adverse perinatal outcomes.²⁴⁰ Richardson et al. assessed 5,227 veterans and found no distinction between exposure to and reaction to morally injurious events, showing that future research should focus on assessing moral pain rather than the events themselves.²⁴¹ Smigelsky et al. assessed 1,002 veterans and found that when used in conjunction with chaplains, the clinical screening for spiritual difficulties can help improve the detection of suicidality risk factors.²⁴² Papazoglou et al. reiterated previous research that moral injury significantly predicted PTSD.²⁴³ Sugrue assessed 218 licensed education professionals for moral injury and found a need for a deeper understanding of the potential sources of moral injury in

238. Sneha Manti, Jennifer Mah Lawson, ZhiZhong Wang, and Harold G. Koenig, “Identifying Moral Injury in Healthcare Professionals: The Moral Injury Symptom Scale-HP,” *Journal of Religion and Health* (July 2020): 1.

239. Anthony Nazarov et al., “Help-seeking for Mental Health Issues in Deployed Canadian Armed Forces Personnel at Risk for Moral Injury,” *European Journal of Psychotraumatology* 11, no. 1 (January 2020): 1.

240. Yael I. Nillni et al., “The Impact of Posttraumatic Stress Disorder and Moral Injury on Women Veterans’ Perinatal Outcomes Following Separation from Military Service,” *Journal of Traumatic Stress* 33 no. 3 (April 2020): 248.

241. Cameron B. Richardson et al., “Examining the Factor Structure of the Moral Injury Events Scale in a Veteran Sample,” *Military Medicine* 185, no. 1-2 (January 2020): e75.

242. Melissa A. Smigelsky et al., “Religion, Spirituality, and Suicide Risk in Iraq and Afghanistan Era Veterans,” *Depression and Anxiety* 37, no. 8 (April 2020): 728.

243. Konstantinos Papazoglou et al., “The Role of Moral Injury in PTSD among Law Enforcement Officers: A Brief Report,” *Frontiers in Psychology* 11 (March 2020): 310.

the education system.²⁴⁴

244. Erin P. Sugrue, “Moral Injury Among Professionals in K–12 Education,” *American Educational Research Journal* 57, no. 1 (February 2020): 43.

Annotated Bibliography Review of Moral Injury in the Public at Large and the Military from 2010-2020

2011

<u>Article Title:</u> Casualties	<u>Category:</u> Theoretical	<u>Purpose:</u> Role of leadership malpractice in moral injury
<u>First Author:</u> Shay, Johnson		<u>Conclusion:</u> Results in the destruction of the capacity for social trust in the mental and social worlds of the individual

2012

<u>Article Title:</u> Adaptive disclosure: An open trial of a novel exposure-based intervention for service members with combat-related psychological stress injuries.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate effectiveness of Adaptive Disclosure (AD) in 44 US Marines
<u>First Author:</u> Gray, Matt J.		<u>Conclusion:</u> AD can treat PTSD and also grief, guilt, and shame from moral injury

<u>Article Title:</u> Combat trauma and moral fragmentation: A theological account of moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine role of religious institutions in treating moral injury
<u>First Author:</u> Kingham, Warren		<u>Conclusion:</u> Churches are better suited due to inherent understanding of spiritual distress

<u>Article Title:</u> A scheme for categorizing traumatic military events.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine types of trauma in 122 US servicemembers
<u>First Author:</u> Stein, Nathan R.		<u>Conclusion:</u> Different types of war trauma, not all fear-based

<u>Article Title:</u> Religious considerations and self-forgiveness in treating complex trauma and moral injury in present and former soldiers	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine roles of self-condemnation and self-forgiveness in moral injury
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<u>First Author:</u> Worthington Jr, Everett L.		<u>Conclusion:</u> Self-condemnation is the result of moral guilt, and self-forgiveness can be decisional or emotional
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2013

<u>Article Title:</u> The trauma of moral injury: Beyond the battlefield.	<u>Category:</u> Qualitative	<u>Purpose:</u> Distinguish between moral injury and PTSD
<u>First Author:</u> Dombo, Eileen A.		<u>Conclusion:</u> Role of shame differentiates between moral injury and PTSD

<u>Article Title:</u> How do deployed health care providers experience moral injury?	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine moral injury in health care providers
<u>First Author:</u> Gibbons, Susanne W.		<u>Conclusion:</u> Military health care providers are exposed to moral stressors

<u>Article Title:</u> Combat-related killing: Expanding evidence-based treatments for PTSD.	<u>Category:</u> Theoretical	<u>Purpose:</u> The experience of killing in war and PTSD
<u>First Author:</u> Maguen, Shira.		<u>Conclusion:</u> The experience of killing in war does not fit into any PTSD models

<u>Article Title:</u> Moral injury: A mechanism for war-related psychological trauma in military family members.	<u>Category:</u> Theoretical	<u>Purpose:</u> Military families and war-related psychological trauma
<u>First Author:</u> Nash, William P.		<u>Conclusion:</u> Forgiveness is crucial to recovering from moral injury in military families

<u>Article Title:</u> Psychometric evaluation of the moral injury events scale.	<u>Category:</u> Quantitative	<u>Purpose:</u> Analyze the Moral Injury Events Scale (MIES) in 1,039 US Marines
<u>First Author:</u> Nash, William P.		<u>Conclusion:</u> MIES is conceptually valid and psychometrically sound

<u>Article Title:</u> A data-driven perspective: Response to commentaries by Maguen and Burkman (2013) and Steenkamp et al (2013).	<u>Category:</u> Theoretical	<u>Purpose:</u> Use of Prolonged Exposure (PE) therapy in treating PTSD and moral injury
<u>First Author:</u> Rauch, Sheila AM		<u>Conclusion:</u> PE is effective in treating moral injury, development of any new treatments is unnecessary

<u>Article Title:</u> How to best treat deployment-related guilt and shame: Commentary on Smith, Duax, and Rauch (2013).	<u>Category:</u> Theoretical	<u>Purpose:</u> Prolonged Exposure (PE) therapy is insufficient in treating moral injury
<u>First Author:</u> Steenkamp, Maria M.		<u>Conclusion:</u> PE only works on moral injuries with an intense fear component, but does not address guilt and shame

<u>Article Title:</u> Transparent assessment: Discovering authentic meanings made by combat veterans.	<u>Category:</u> Qualitative	<u>Purpose:</u> Role of arts-based intervention in veterans with moral injury
<u>First Author:</u> Artra, Iishana P.		<u>Conclusion:</u> Meaning making can be assessed using arts-based intervention

<u>Article Title:</u> The role of moral emotions in military trauma: Implications for the study and treatment of moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Role of negative moral emotions in PTSD
<u>First Author:</u> Farnsworth, Jacob K.		<u>Conclusion:</u> Guilt and shame can result in more significant PTSD symptoms

<u>Article Title:</u> Moral injury and the ethic of care: Reframing the conversation about differences.	<u>Category:</u> Theoretical	<u>Purpose:</u> Moral injury exists in marginalized minorities
<u>First Author:</u> Gilligan, Carol.		<u>Conclusion:</u> Betrayal, even in a culturally sanctioned context, can negatively affect people

<u>Article Title:</u> A group therapy approach to treating combat post-traumatic stress disorder: Interpersonal reconnection through letter writing.	<u>Category:</u> Theoretical	<u>Purpose:</u> Use of letter writing as a means of helping resolve feelings of grief, loss, guilt, and shame
<u>First Author:</u> Keenan, Melinda J.		<u>Conclusion:</u> Letter writing is part of healing and can be used to help treat moral injury

<u>Article Title:</u> Moral injury—A war trauma affecting current and former military personnel.	<u>Category:</u> Theoretical	<u>Purpose:</u> Use of pastoral care in treating moral injury in the military
<u>First Author:</u> Kopacz, Marek S.		<u>Conclusion:</u> Pastoral care should be used to address spirituality in mental health

<u>Article Title:</u> Prolonged exposure for guilt and shame in a veteran of Operation Iraqi Freedom.	<u>Category:</u> Quantitative	<u>Purpose:</u> Use of Prolonged Exposure (PE) therapy in moral injury in one veteran
<u>First Author:</u> Paul, Lisa A.		<u>Conclusion:</u> PE might be useful in treating guilt and shame in veterans

<u>Article Title:</u> The interrelationships between moral attitudes, post-traumatic stress disorder symptoms, and mixed lateral preference in Israeli reserve combat troops.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine moral objection in 147 Israel Defence Forces (IDF) reserve combat troops
<u>First Author:</u> Ritov, Gilad.		<u>Conclusion:</u> Moral objection has significant implications on psychological and organic well-being

<u>Article Title:</u> Moral Injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Moral injury is a betrayal of what is right by someone who holds legitimate authority in a high-stakes situation
<u>First Author:</u> Shay, Jonathan.		<u>Conclusion:</u> Moral injury is different from PTSD

<u>Article Title:</u> Recovering lost goodness: Shame, guilt, and self-empathy.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine self-empathy as part of healing moral injury
<u>First Author:</u> Sherman, Nacy.		<u>Conclusion:</u> Self-empathy and self-forgiveness can be used to heal guilt and shame

<u>Article Title:</u> The causes, course, and consequences of anger problems in veterans returning to civilian life.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 24 veterans about their reintegration experiences
<u>First Author:</u> Worthen, Miranda.		<u>Conclusion:</u> Moral injury made them feel different and unworthy

2015

<u>Article Title:</u> Moral injury, soul repair, and creating a place for grace.	<u>Category:</u> Theoretical	<u>Purpose:</u> Role of religious support in mental and spiritual healing
<u>First Author:</u> Antal, Chris J.		<u>Conclusion:</u> Veterans need a space for grace to heal and be reconciled with God

<u>Article Title:</u> Soldiers returning from deployment: A qualitative study regarding exposure, coping, and reintegration.	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine exposure to trauma in combat and reintegration experiences in 103 US soldiers
<u>First Author:</u> Brenner, Lisa A.		<u>Conclusion:</u> Soldiers exhibited widespread PTSD, Traumatic Brain Injury (TBI), and moral injury

<u>Article Title:</u> Guilt as a mediator of the relationship between depression and post-traumatic stress with suicide ideation in two samples of military personnel and veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examines effects guilt has on depression and PTSD when evaluating suicidal ideation
<u>First Author:</u> Bryan, Craig J.		<u>Conclusion:</u> Guilt may be a mechanism for amplified risk among suicidal military personal with depression and PTSD

<u>Article Title:</u> Moral injury, meaning making, and mental health in returning veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine whether exposure to Morally Injurious Experiences (MIEs) contribute to mental health problems in 131 combat veterans
<u>First Author:</u> Currier, Joseph M.		<u>Conclusion:</u> Significant correlation between exposure to MIEs with increased mental health symptoms

<u>Article Title:</u> Initial psychometric evaluation of the Mor-al Injury Questionnaire – Military version.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assesses the Moral Injury Questionnaire – Military Version (MIQ-M) in 131 combat veterans
<u>First Author:</u> Currier, Joseph M.		<u>Conclusion:</u> MIQ-M is a valid measure of Morally Injurious Experiences (MIEs) with the exception of sexual trauma

<u>Article Title:</u> Morally injurious experiences and meaning in Salvadorian teachers exposed to violence.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine Morally Injurious Experiences (MIEs) in 257 El Salvadorian teachers
<u>First Author:</u> Currier, Joseph M.		<u>Conclusion:</u> Teachers who reported higher MIEs also exhibited increased PTSD and burnout symptoms

<u>Article Title:</u> Resilience as the relational ability to spiritually integrate moral stress.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine how resilience can be used to help clients with spiritually integrated moral stress
<u>First Author:</u> Doehring, Carrie.		<u>Conclusion:</u> Inherent theological ideas that cause moral stress can be integrated into a compassionate approach

<u>Article Title:</u> Evidence-based trauma treatment: Problems with a cognitive reappraisal of guilt.	<u>Category:</u> Theoretical	<u>Purpose:</u> Psychotherapies can treat PTSD but not guilt, remorse, and regret
<u>First Author:</u> Finlay, Lisa D.		<u>Conclusion:</u> Psychology in general has dismissed guilt and underestimates client's moral beliefs in treatments

<u>Article Title:</u> Moral injury and psycho-spiritual development: Considering the developmental context.	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine relationship between moral injury and psycho-spiritual development
<u>First Author:</u> Harris, J. Irene.		<u>Conclusion:</u> Moral injury has psychological, social, and spiritual concerns associated with it

<u>Article Title:</u> Using a spiritual distress scale to assess suicide risk in veterans: An exploratory study.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess suicide risk in 4,696 veterans with spiritual distress
<u>First Author:</u> Kopacz, Marek S.		<u>Conclusion:</u> There is increased suicide risk in veterans with higher spiritual distress

<u>Article Title:</u> Moral injury: An emergind clinical construct with implications for social work education.	<u>Category:</u> Qualitative	<u>Purpose:</u> Describe moral injury in social work
<u>First Author:</u> Kopacz, Marek S.		<u>Conclusion:</u> Moral injury can be encountered in social work

<u>Article Title:</u> A scheme for categorizing traumatic military events.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine types of trauma in 122 US servicemembers
<u>First Author:</u> Levinson, Meria		<u>Conclusion:</u> Moral injury is “the trauma of perpetuating significant moral wrong against others despite one’s wholehearted desire and responsibility to do otherwise”

<u>Article Title:</u> Role of morality in the experience of guilt and shame within the armed forces.	<u>Category:</u> Theoretical	<u>Purpose:</u> Literature review on shame, guilt, and morality in the military
<u>First Author:</u> Nazarov, A. R.		<u>Conclusion:</u> Guilt and shame are related to PTSD

<u>Article Title:</u> Moral injury in traumatized refugees.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine moral injury in 134 refugees in Switzerland
<u>First Author:</u> Nickerson, Angela.		<u>Conclusion:</u> Moral injury has a significant contribution to mental health outcomes, especially in torture survivors

<u>Article Title:</u> Possibilities within acceptance and commitment therapy for approaching moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine use of Acceptance and Commitment Therapy (ACT) in moral injury
<u>First Author:</u> Nieuwsma, Jason A.		<u>Conclusion:</u> ACT can help individuals give meaning and purpose in life

2016

<u>Article Title:</u> Can people experience post-traumatic growth after committing violent acts?	<u>Category:</u> Theoretical	<u>Purpose:</u> Outline the conditions under which people may experience post-traumatic growth after committing violence
<u>First Author:</u> Blackie, Laura ER		<u>Conclusion:</u> They can find post-traumatic growth through disclosure in a supportive context

<u>Article Title:</u> Moral injury in warriors and veterans: The challenge to social work	<u>Category:</u> Theoretical	<u>Purpose:</u> Raise awareness of spiritual wounds suffered by service members
<u>First Author:</u> Blinka, Dee.		<u>Conclusion:</u> Spirituality should be integrated into social work through faith and practice

<u>Article Title:</u> Beyond the battlefield.	<u>Category:</u> Qualitative	<u>Purpose:</u> Exploration of moral injury should be expanded
<u>First Author:</u> Bowker, Matthew H.		<u>Conclusion:</u> Include psychic and moral meanings invested in the military as an institution

<u>Article Title:</u> Measuring moral injury: Psychometric properties of the moral injury events scale in two military samples.	<u>Category:</u> Quantitative	<u>Purpose:</u> Measure the validity of the Moral Injury Event Scale (MIES) in 151 Air Force and 935 Army National Guard personnel
<u>First Author:</u> Bryan, Craig J.		<u>Conclusion:</u> MIES shows connection between moral injury and PTSD, anger, and hopelessness

<u>Article Title:</u> Moral injury, spiritual care, and the role of chaplains: An exploratory scoping review of literature and resources.	<u>Category:</u> Theoretative	<u>Purpose:</u> Role of chaplains in treating moral injury
<u>First Author:</u> Carey, Lindsay B.		<u>Conclusion:</u> Incorporate chaplains in mental health services to add spiritual and pastoral care

<u>Article Title:</u> Wronged beyond words: On the publicity and repression of moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral grievances as a result of repressed victimhood and knowledge of these injustices
<u>First Author:</u> Congdon, Matthew.		<u>Conclusion:</u> Morally wrong instances should be addressed in moral terms

<u>Article Title:</u> Portuguese war veterans: Moral injury and factors related to recovery from PTSD.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine 60 Portuguese war veterans and PTSD recovery
<u>First Author:</u> Ferração, Paulo Correia		<u>Conclusion:</u> Veterans with higher moral injury factors did not recover from PTSD as well as veterans with lower moral injury factors

<u>Article Title:</u> Behind the scenes of reflective practice in professional development: A glance into the ethical predicaments of secondary school teachers.	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine 12 US secondary school teachers and ethical predicaments
<u>First Author:</u> Finefter-Rosenbluh, Ilana.		<u>Conclusion:</u> Teachers felt that peer evaluations were morally wrong

<u>Article Title:</u> A review of research on moral injury in combat veterans.	<u>Category:</u> Theoretical	<u>Purpose:</u> Review data relevant to moral injury and gaps in the research
<u>First Author:</u> Frankfurt, Sheila		<u>Conclusion:</u> Highest risk factors for moral injury were combat exposure and deployment length

<u>Article Title:</u> Introduction: Special issue on religious and spiritually-oriented interventions with veterans and military populations.	<u>Category:</u> Theoretical	<u>Purpose:</u> Address the need to integrate religious/spiritual content into social work
<u>First Author:</u> Freeman, Dexter		<u>Conclusion:</u> Practitioners need to meet the spiritual needs of clients

<u>Article Title:</u> A review of PTSD and shame in military veterans.	<u>Category:</u> Qualitative	<u>Purpose:</u> Conduct a literature review on the role of shame has on moral injury
<u>First Author:</u> Gaudet, Camille M.		<u>Conclusion:</u> Shame correlates with higher severity of symptoms in PTSD. It appears after moral injury has occurred.

<u>Article Title:</u> A scoping study of moral injury: Identifying directions for social work research.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine the role of social work in treating moral injury
<u>First Author:</u> Haight, Wendy		<u>Conclusion:</u> Social workers need more research to understand moral injury

<u>Article Title:</u> Defining and assessing moral injury: A syndrome perspective.	<u>Category:</u> Theoretical	<u>Purpose:</u> Define symptoms of moral injury
<u>First Author:</u> Jinkersin, Jeremy D.		<u>Conclusion:</u> Primary symptoms are guilt, shame, spiritual conflict, and loss of trust

<u>Article Title:</u> Moral injury: A new challenge for complementary and alternative medicine.	<u>Category:</u> Theoretical	<u>Purpose:</u> Explore alternative methods for healing moral injury
<u>First Author:</u> Kopacz, Marek S.		<u>Conclusion:</u> Use of Adaptive Disclosure (AD) treatments, pastoral care, and mindfulness-based approaches

<u>Article Title:</u> Help-seeking behaviors among active-duty military personnel: Utilization of chaplains and other mental health service providers.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine help-seeking behaviors in 889 active-duty US soldiers
<u>First Author:</u> Morgan, Jessica Kelley.		<u>Conclusion:</u> Some soldiers who saw a chaplain reported high levels of combat exposure, PTSD, and depression

<u>Article Title:</u> Veterans' perspectives on the psycho-social impact of killing in war.	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine consequences of killing in war in 26 combat veterans
<u>First Author:</u> Purcell, Natalie		<u>Conclusion:</u> Killing provokes a moral conflict that affects sense of self, spirituality, and relationships with others

<u>Article Title:</u> Firing a weapon and killing in combat are associated with suicidal ideation in OEF/OIF veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Looks at 68 combat veterans, killing in combat, and suicidal ideation as a result of moral injury
<u>First Author:</u> Tripp, Jessica C.		<u>Conclusion:</u> Killing was predictive of PTSD and suicidal ideation

<u>Article Title:</u> The invisible wound: Moral injury and its impact on the health of Operation Enduring Freedom/Operation Iraqi Freedom veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine the impact of moral injury on general physical/mental health, PTSD, and depression symptoms
<u>First Author:</u> Yan, Grace W.		<u>Conclusion:</u> Moral injury is a predicator of PTSD and depression. Also plays a role in both physical and mental health outcomes

<u>Article Title:</u> Moral injury and definitional clarity: Betrayal, spirituality, and the role of chaplains.	<u>Category:</u> Theoretical	<u>Purpose:</u> Look at betrayal and spirituality in moral injury
<u>First Author:</u> Carey, Lindsay B.		<u>Conclusion:</u> Chaplains can assist in addressing betrayal and spirituality in moral injury healing

<u>Article Title:</u> Moral transgression during the Vietnam War: A path analysis of the psychological impact of veterans' involvement in wartime atrocities.	<u>Category:</u> Quantitative	<u>Purpose:</u> 603 Vietnam veterans were assessed for effects of atrocities on depression and suicidal ideation
<u>First Author:</u> Dennis, Paul A.		<u>Conclusion:</u> Involvement in war atrocities led to increased guilt, PTSD, depression, and suicidal ideation

<u>Article Title:</u> A functional approach to understanding and treating military-related moral injury	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine use of Acceptance and Commitment Therapy (ACT) in 11 US veterans with PTSD
<u>First Author:</u> Farnsworth, Jacob K.		<u>Conclusion:</u> ACT is a viable treatment option for moral injury, primarily when focused on forgiveness

<u>Article Title:</u> ‘Risk is King and Needs to take a Backseat!’ Can social workers’ experiences of moral injury strengthen practice?.	<u>Category:</u> Quantitative	<u>Purpose:</u> 100 social worker in Scotland were assessed for ethical stress and risk aversion
<u>First Author:</u> Fenton, Jane		<u>Conclusion:</u> Significant relationship between risk aversion and ethical stress

<u>Article Title:</u> Moral injury and stress response patterns in United States military veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 37 US veterans for moral injury
<u>First Author:</u> Ferrell, Emily L.		<u>Conclusion:</u> Veterans with moral injury also experience hyperarousal, especially in those with higher self-regulatory skills

<u>Article Title:</u> Indirect relations between transgressive acts and general combat exposure and moral injury.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 190 US veterans for PTSD and suicidality through combat-related guilt and fear
<u>First Author:</u> Frankfurt, Sheila B.		<u>Conclusion:</u> Guilt led to both suicidality and PTSD. Fear led to PTSD

<u>Article Title:</u> Moral Injury: Invisible Wounds of Combat.	<u>Category:</u> Theoretical	<u>Purpose:</u> Describe moral injury
<u>First Author:</u> Franklin, John.		<u>Conclusion:</u> It exists and has a negative impact on people

<u>Article Title:</u> When self-blame is rational and appropriate: The limited utility of Socratic questioning in the context of moral injury: Commentary on Wachen et al. (2016).	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine use of Cognitive Processing Therapy (CPT) to treat moral injury
<u>First Author:</u> Gray, Matt J.		<u>Conclusion:</u> CPT uses hindsight bias and other forms of cognitive distortion. Might not be the best approach

<u>Article Title:</u> Moral injury among child protection professionals: Implications for the ethical treatment and retention of workers.	<u>Category:</u> Qualitative	<u>Purpose:</u> Assess 38 professionals within Child Protective Services for moral injury
<u>First Author:</u> Haight, Wendy.		<u>Conclusion:</u> Many Child Protection Services have experienced moral injury

<u>Article Title:</u> “Basically, I look at it like combat”: Reflections on moral injury by parents involved with Child Protection Services.	<u>Category:</u> Qualitative	<u>Purpose:</u> Assess moral injury in 10 parents involved with Child Protective Services
<u>First Author:</u> Haight, Wendy.		<u>Conclusion:</u> Parents suffer from moral injury that is not being addressed

<u>Article Title:</u> Everyday coping with moral injury: The perspectives of professionals and parents involved with Child Protection Services.	<u>Category:</u> Qualitative	<u>Purpose:</u> Evaluate 30 workers and 10 parents within the Child Protective Services system
<u>First Author:</u> Haight, Wendy.		<u>Conclusion:</u> Parents and workers may require different approaches to prevention and intervention than military personnel

<u>Article Title:</u> Isolating effects of moral injury and low post-deployment support within the US military.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 552 US military personnel for moral injury and sense of belonging
<u>First Author:</u> Houtsma, Claire.		<u>Conclusion:</u> Moral injury can impact perceived isolation from others, resulting in reduced feelings of belonging

<u>Article Title:</u> Distinguishing war-related PTSD resulting from perpetration- and betrayal-based morally injurious events.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 867 US Marines for moral injury
<u>First Author:</u> Jordan, Alexander H.		<u>Conclusion:</u> Betrayal and perpetration of transgressive acts lead to PTSD

<u>Article Title:</u> Rationale for spiritually oriented cognitive processing therapy for moral injury in active-duty military and veterans with post-traumatic stress disorder.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine use of Spiritually Oriented Cognitive Processing Therapy (SOCPT) in treating moral injury
<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> Spiritual involvement is associated with faster recovery from PTSD

<u>Article Title:</u> Impact of killing in war: A randomized, controlled pilot trial.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine use of Impact of Killing (IOK) treatment in 33 combat veterans with PTSD
<u>First Author:</u> Maguen, Shira.		<u>Conclusion:</u> IOK significantly improved PTSD symptoms

<u>Article Title:</u> The impact of aggression on the relationship between betrayal and belongingness among US military personnel.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 562 US military personnel for moral injury
<u>First Author:</u> Martin, Rachel L.		<u>Conclusion:</u> Instances of betrayal influenced suicide risk in military personnel

<u>Article Title:</u> Professional quality of life and changes in spirituality among VHA chaplains: A mixed methods investigation.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 267 Veterans HEalth Administration (VHA) chaplains for spiritual and emotional well-being
<u>First Author:</u> McCormick, Wesley H.		<u>Conclusion:</u> Some reported negative changes, indicating burnout and traumatic stress

<u>Article Title:</u> Looking Inward Together: Just War Thinking and Our Shared Moral Emotions.	<u>Category:</u> Theoretical	<u>Purpose:</u> War is external and morality is internal
<u>First Author:</u> Morkevicius, Valerie.		<u>Conclusion:</u> Guilt exists within the individual and we need to explore the gap between law and morality

<u>Article Title:</u> The role of moral suffering (moral distress and moral injury) in police compassion fatigue and PTSD: An unexplored topic.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine role of moral injury in law enforcement with PTSD
<u>First Author:</u> Papazoglou, Konstantinos.		<u>Conclusion:</u> Moral injury is pervasive throughout law enforcement, directly impacting their ability to perform their duties

<u>Article Title:</u> Moral injury and original sin: The applicability of Agustinian moral psychology in light of combat trauma.	<u>Category:</u> Theoretical	<u>Purpose:</u> Integrate an Agustinian framework into moral injury
<u>First Author:</u> Powers, Brian S.		<u>Conclusion:</u> Moral injury is influenced by the outside forces and human will

<u>Article Title:</u> Eye in the sky: Understanding the mental health of unmanned aerial vehicle operators.	<u>Category:</u> Theoretical	<u>Purpose:</u> Conduct a literature search on the mental health of unmanned aerial vehicle (UAV) operators
<u>First Author:</u> Wallace, D.		<u>Conclusion:</u> Low instances of PTSD. Occupational stressors are related to adverse mental health outcomes

<u>Article Title:</u> Correcting misperceptions about cognitive processing therapy to treat moral injury: A response to gray and colleagues (this issue).	<u>Category:</u> Theoretical	<u>Purpose:</u> Respond to the idea that Cognitive Processing Therapy (CPT) is a viable treatment for moral injury
<u>First Author:</u> Wachen, Jennifer Schuster		<u>Conclusion:</u> CPT is more effective than Adaptive Disclosure (AD) therapy

<u>Article Title:</u> Moral injury as inherent political critique: The prophetic possibilities of a new term.	<u>Category:</u> Theoretical	<u>Purpose:</u> Instances of moral injury in the military can be insightful on cultural effects on the world
<u>First Author:</u> Wiinikka-Lydon, Joseph		<u>Conclusion:</u> Veterans can be empowered to oppose social conditions and policies that lead to war in the first place

<u>Article Title:</u> Moral injury is US combat veterans: Results from the National Health and Resilience in Veterans study.	<u>Category:</u> Quantitative	<u>Purpose:</u> Analyze data of 564 combat veterans using the Moral Injury Events Scale (MIES)
<u>First Author:</u> Wisco, Blair E.		<u>Conclusion:</u> Significant minority of veterans reports exposure to moral injury. These are associated with risk for mental disorders and suicidality

<u>Article Title:</u> Spiritual future of war-related moral injury: A primer for clinicians.	<u>Category:</u> Theoretical	<u>Purpose:</u> Provide insight into various spiritual traditions and how moral injury impacts them
<u>First Author:</u> Wortmann, Jennifer H.		<u>Conclusion:</u> Chaplains or clergy should be used to address aspects of moral injury

<u>Article Title:</u> Psychosocial rehabilitation after war trauma with adaptive disclosure: Design and rationale of a comparative efficacy trial.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 186 veterans with PTSD while undergoing Adaptive Disclosure (AD) or Present-Centered Therapy (PCT)
<u>First Author:</u> Yeterian, Julie D.		<u>Conclusion:</u> AD presented more significant improvements than PCT

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<u>Article Title:</u> Moral injury in German Armed Forces soldiers with war-related trauma: Effectiveness of value-based cognitive behavioral group therapy.	<u>Category:</u> Quantitative	<u>Purpose:</u> Treat 21 German soldiers with PTSD through “compassionate imagery”
<u>First Author:</u> Alliger-Horn, Christina		<u>Conclusion:</u> Overall psychological stress dropped after therapy

<u>Article Title:</u> Moral injury and PTSD as mediators of the associations between morally injurious experiences and mental health and substance use.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 244 US military personnel for moral injury
<u>First Author:</u> Battles, Allison R.		<u>Conclusion:</u> Moral injury brought about by atrocities and betrayal resulted in depression, anxiety, alcohol abuse, and PTSD symptoms

<u>Article Title:</u> Emotional numbing symptoms partially mediate the association between exposure to potentially morally injurious experiences and sexual anxiety for male service members.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine 221 male Army personnel for sexual anxiety (SA) as a result of moral injury
<u>First Author:</u> Bhalla, Arjun.		<u>Conclusion:</u> Moral injury was associated with SA beyond general combat exposure

<u>Article Title:</u> Work-related trauma, alienation, and posttraumatic and depressive symptoms in medical examiner employees.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 259 Medical Examiner employees for PTSD and depression
<u>First Author:</u> Brondolo, Elizabeth		<u>Conclusion:</u> Negative cognitions mediated the relationship between case exposure and depression and PTSD.

<u>Article Title:</u> Moral injury, posttraumatic stress disorder, and suicidal behavior among National Guard personnel.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 930 National Guard personnel for moral injury and PTSD
<u>First Author:</u> Bryan, Craig J.		<u>Conclusion:</u> Moral injury and PTSD are separate constructs, each with unique signs and symptoms

<u>Article Title:</u> German Soldiers' Needs to Clarify Open Aspects in Their Life, to Talk About Fears and Worries, and to Forgive and to Be Forgiven as a Matter of Life Reflection.	<u>Category:</u> Quantitative	<u>Purpose:</u> Surveyed 1,097 German soldiers on their existential/spiritual needs and mental health
<u>First Author:</u> Büssing, Arndt		<u>Conclusion:</u> Coping with failure involves life reflection and the intention to solve conflicting situations

<u>Article Title:</u> Chaplaincy, spiritual care and moral injury: Considerations regarding screening and treatment.	<u>Category:</u> Theoretical	<u>Purpose:</u> Include chaplains in the screening and treatment of moral injury
<u>First Author:</u> Carey, Lindsay B.		<u>Conclusion:</u> Chaplains should be included in treating moral injury

<u>Article Title:</u> Moral injury and the priesthood of all believers 1.	<u>Category:</u> Theoretical	<u>Purpose:</u> Moral injury is a spiritual matter that requires spiritual resources for healing
<u>First Author:</u> Childs Jr, James M.		<u>Conclusion:</u> Clergy and chaplains with a supportive community can help heal moral injury

<u>Article Title:</u> Development and evaluation of the Expressions of Moral Injury Scale—Military Version.	<u>Category:</u> Quantitative	<u>Purpose:</u> Use 286 US veterans to develop and assess the Expression of Moral Injury Scale – Military Version (EMIS-M)
<u>First Author:</u> Currier Joseph M.		<u>Conclusion:</u> EMIS-M is a reliable and valid measure of identifying expressions of moral injury in patients

<u>Article Title:</u> A qualitative examination of VA Chaplains' understandings and interventions related to moral injury in military veterans.	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine 543 VA chaplains' understandings of moral injury and preferred intervention strategies
<u>First Author:</u> Drescher, Kent D.		<u>Conclusion:</u> Research has not specifically addressed the role chaplains can play in the recovery process

<u>Article Title:</u> Morally injurious events and psychological distress among veterans: Examining the mediating role of religious and spiritual struggles.	<u>Category:</u> Quantitative	<u>Purpose:</u> Look at the role of religion/spirituality (R/S) in relation to values violated by Potentially Morally Injurious Events (PMIEs)
<u>First Author:</u> Evans, Wyatt R.		<u>Conclusion:</u> Higher PMIE exposure led to R/S struggles, anxiety, and PTSD

<u>Article Title:</u> Mechanisms of moral injury following military sexual trauma and combat in post-9/11 US war veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Survey 310 US veterans who were subject to Military Sexual Trauma (MST) and combat exposure
<u>First Author:</u> Frankfurt, Sheila B.		<u>Conclusion:</u> Multiple pathways of moral injury development following different traumas and morally injurious events

<u>Article Title:</u> Contemporary insights from Biblical combat veterans through the lenses of moral injury and post-traumatic stress disorder.	<u>Category:</u> Theoretical	<u>Purpose:</u> Relate stories of biblical characters through theories on moral injury and PTSD
<u>First Author:</u> Grimell, Jan		<u>Conclusion:</u> Moral injury and PTSD have existed in early human history

<u>Article Title:</u> Moral injury and the ethics of teaching tainted legacies.	<u>Category:</u> Theoretical	<u>Purpose:</u> Role of moral injury and ethical leadership
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<u>First Author:</u> Guth, Karen V.		<u>Conclusion:</u> Moral injury can be used to examine individuals who fell due to leadership malpractice
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<u>Article Title:</u> Moral Injury, Feminist and Womanist Ethics, and Tainted Legacies.	<u>Category:</u> Theoretical	<u>Purpose:</u> Use feminist and womanist ethics to argue against moral injury in Christianity
<u>First Author:</u> Guth, Karen V.		<u>Conclusion:</u> Feminist and womanist ethics can resonate with other tainted legacies

<u>Article Title:</u> Spiritually integrated care for PTSD: A randomized controlled trial of “Building Spiritual Strength”.	<u>Category:</u> Quantitative	<u>Purpose:</u> Use of Building Spiritual Strength (BSS) in treating spiritual distress and PTSD
<u>First Author:</u> Harris, J. Irene		<u>Conclusion:</u> BSS is effective at treating distress in relationship with a Higher Power

<u>Article Title:</u> Using prolonged exposure and cognitive processing therapy to treat veterans with moral injury-based PTSD: Two case examples.	<u>Category:</u> Qualitative	<u>Purpose:</u> Compare use of Prolonged Exposure (PE) and Cognitive Processing Therapy (CPT) to treat moral injury in two case studies
<u>First Author:</u> Held, Philip		<u>Conclusion:</u> Both treatments were successful at reducing moral injury-based PTSD in both clients

<u>Article Title:</u> The relationship between moral injury appraisals, trauma exposure, and mental health in refugees.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess moral injury in 222 refugees
<u>First Author:</u> Hoffman, Joel		<u>Conclusion:</u> There may be subtypes of moral injury that are associated with different mental health outcomes

<u>Article Title:</u> Called into crucible: Vocation and moral injury in US public school teachers.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral injury in educators
<u>First Author:</u> Keefe-Perry, L. Callid		<u>Conclusion:</u> Moral injury should be included in teacher training programs

<u>Article Title:</u> Measuring symptoms of moral injury in veterans and active-duty military with PTSD.	<u>Category:</u> Theoretical	<u>Purpose:</u> Evaluate the Moral Injury Symptom Scale – Military Version (MISS-M)
<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> MISS-M is a reliable and valid measure for both the psychological and spiritual/religious symptoms of moral injury

<u>Article Title:</u> Moral injury and religiosity in US veterans with post-traumatic stress disorder symptoms.	<u>Category:</u> Quantitive	<u>Purpose:</u> Examine the association between Religious Involvement (RI) and moral injury in 373 combat veterans with PTSD
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<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> RI was associated with fewer symptoms of moral injury
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<u>Article Title:</u> Screening for moral injury: the moral injury symptom scale—military version short form.	<u>Category:</u> Quantitative	<u>Purpose:</u> 427 veterans and active-duty military were assessed using the Moral Injury Symptom Scale – Military Version (MISS-M)
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<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> MISS-M is a reliable and valid measure of moral injury symptoms
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<u>Article Title:</u> The moral injury symptom scale-military version.	<u>Category:</u> Quantitative	<u>Purpose:</u> Develop a moral injury symptom scale using 427 veterans and active-duty military
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<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> The Moral Injury Symptom Scale – Military Version (MISS-M) assesses symptoms of moral injury
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<u>Article Title:</u> Association between trust and mental, social, and physical health outcomes in veterans and active-duty service members with combat-related PTSD symptomatology.	<u>Category:</u> Quantitative	<u>Purpose:</u> Survey 427 veterans and active-duty military for combat exposure, trust, PTSD, anxiety/depression, social involvement, and religiosity
<u>First Author:</u> Kopacz, Marek S.		<u>Conclusion:</u> Inverse relationship between trust and PTSD/depression/anxiety. Higher levels of trust were associated with increased social interaction and religiosity

<u>Article Title:</u> Examining moral injury awareness in a clinical setting.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine 106 veterans and their awareness of moral injury
<u>First Author:</u> Kopacz, M.		<u>Conclusion:</u> Veterans are well aware of moral injury and feel that not enough is being done to address it

<u>Article Title:</u> Negative outcomes after morally injurious experiences: A replication and extension.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine 161 veterans and the relationship between morally injurious experiences, moral emotions, and PTSD
<u>First Author:</u> Lancaster, Steven Lloyd		<u>Conclusion:</u> Moral emotions mediate the role of morally injurious experiences on symptoms of PTSD

<u>Article Title:</u> Measures of morally injurious experiences: a quantitative comparison.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 182 combat veterans to explore the relationship between moral injury and psychosocial variables
<u>First Author:</u> Lancaster, Steven L.		<u>Conclusion:</u> Similar correlations between moral injury and negative psychosocial variables

<u>Article Title:</u> Moral injury, suicide ideation, and behavior among combat veterans: The mediating roles of entrapment and depression.	<u>Category:</u> Quantitative	<u>Purpose:</u> Evaluate 191 Israeli combat veterans for suicidal ideation/ behaviors and moral injury
<u>First Author:</u> Levi-Belz, Yossi		<u>Conclusion:</u> Veterans exposed to moral injury are more prone to suicidal ideation/behaviors

<u>Article Title:</u> Employing loving-kindness meditation to promote self-and other-compassion among war veterans with post-traumatic stress disorder.	<u>Category:</u> Theoretical	<u>Purpose:</u> Incorporate compassion training into moral injury treatment
<u>First Author:</u> Litz, Brett		<u>Conclusion:</u> Compassion training can help patients engage in adaptive and reparative behaviors

<u>Article Title:</u> On ‘moral injury’ Psychic fringes and war violence.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine links between moral injury theory and violence that is injurious to soldiers’ psyches
<u>First Author:</u> MacLeish, Kenneth		<u>Conclusion:</u> Mental illness is linked directly to the politics of war violence and post-war care

<u>Article Title:</u> Moral injury: contextualized care.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine how chaplains might be more intentionally engaged in healthcare systems to care for veterans with moral injury
<u>First Author:</u> Meador, Kieth G.		<u>Conclusion:</u> Chaplains are a relevant part of moral injury care and should be used more intentionally

<u>Article Title:</u> Two Brownstowns: A Case Study on Moral Injury and Reciprocal Violence.	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine two engagements in the War of 1812 as they relate to moral injury
<u>First Author:</u> Miller, Joseph R.		<u>Conclusion:</u> Both cases exhibit the brutal and violent nature of warfare as traumatic

<u>Article Title:</u> Toward an interdisciplinary conceptualization of moral injury: From unequivocal guilt and anger to moral conflict and disorientation.	<u>Category:</u> Theoretical	<u>Purpose:</u> An individual's moral compass may "fail" and cause ethical distress
<u>First Author:</u> Molendjik, Tine		<u>Conclusion:</u> Research should look at political practices and public narratives at home as well as the individual

<u>Article Title:</u> Moral aspects of “moral injury”: Analyzing conceptualizations on the role of morality in military trauma.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine the role of morality in deployment-related distress
<u>First Author:</u> Molendjik, Tine		<u>Conclusion:</u> Values and norms are characterized by the conflict and moral conflict may lead to altered beliefs about previously held values

<u>Article Title:</u> Are medical students in prehospital care at risk of moral injury?	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview five medical students for their experiences in emergency medicine
<u>First Author:</u> Murray, Esther		<u>Conclusion:</u> Students need to have support opportunities as a result of the trauma they experience

<u>Article Title:</u> Greater prevalence of post-traumatic stress disorder and depression in deployed Canadian Armed Forces personnel at risk for moral injury.	<u>Category:</u> Quantitative	<u>Purpose:</u> Explore the link between exposure to Potentially Morally Injurious Events (PMIEs) and Adverse Mental Health Outcomes (AMHOs)
<u>First Author:</u> Nazarov, Anthony D.		<u>Conclusion:</u> Exposure to PMIEs led to a higher likelihood of having PTSD and AMHO

<u>Article Title:</u> A longitudinal investigation of moral injury appraisals amongst treatment-seeking refugees.	<u>Category:</u> Quantitative	<u>Purpose:</u> Look at 134 refugees in Switzerland seeking treatment for PTSD
<u>First Author:</u> Nickerson, Angela		<u>Conclusion:</u> There are different types of moral injury appraisals that may be associated with different psychological outcomes

<u>Article Title:</u> Psychological impact of remote combat/ graphic media exposure among US Air Force intelligence personnel.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine 356 Air Force personnel assigned to intelligence units for exposure of moral injury
<u>First Author:</u> Ogle, Alan D.		<u>Conclusion:</u> Low portion reported PTSD symptoms but other reported struggling with negative cognitions about events in their career

<u>Article Title:</u> Healing from moral injury: A qualitative evaluation of the impact of killing treatment for combat veterans.	<u>Category:</u> Qualitative	<u>Purpose:</u> Look at 28 combat veterans in the Impact of Killing (IOK) treatment
<u>First Author:</u> Purcell, Natalie		<u>Conclusion:</u> IOK helped veterans work through the healing process, especially those who struggle with killing in war

<u>Article Title:</u> “Opening a door to a new life”: The role of forgiveness in healing from moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Explore the role of forgiveness and moral injury treatment
<u>First Author:</u> Purcell, Natalie		<u>Conclusion:</u> Self-forgiveness may not repair the underlying conditions of moral injury, but can help find a path forward

<u>Article Title:</u> Sources of moral injury among war veterans: A qualitative evaluation.	<u>Category:</u> Qualitative	<u>Purpose:</u> Study 19 veterans to explore the types of events perceived as morally injurious
<u>First Author:</u> Schorr, Yonit		<u>Conclusion:</u> Two main categories: Personal Responsibility and Responsibility of Others

<u>Article Title:</u> Roles of religion and spirituality among veterans who manage PTSD and their partners.	<u>Category:</u> Qualitative	<u>Purpose:</u> Look at 20 military couples and the roles of religious/spiritual (R/S) beliefs on PTSD
<u>First Author:</u> Sherman, Michelle D.		<u>Conclusion:</u> Some withdrew from R/S while others drew upon their R/S beliefs to strengthen their marriages

<u>Article Title:</u> The role of spirituality among military en route care nurses: source of strength or moral injury?	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 119 military nurses about their experiences and subsequent mental health outcomes
<u>First Author:</u> Simmons, Angela M.		<u>Conclusion:</u> Spirituality serves as a buffer against developing behavioral health issues

<u>Article Title:</u> Spiritual dimensions of moral injury: contributions of mental health chaplains in the Canadian armed forces.	<u>Category:</u> Theoretical	<u>Purpose:</u> Role of chaplains in addressing spiritual/religious issues and potentially helping to treat moral injury
<u>First Author:</u> Smith-MacDonald, Lorraine A.		<u>Conclusion:</u> Chaplains should also be included more in mental health clinics as well

<u>Article Title:</u> Moral injury in international relations.	<u>Category:</u> Theoretical	<u>Purpose:</u> Explore the main consequences of moral injury: loss of control, ethical anxiety, and relational harm
<u>First Author:</u> Subotic, Jelena		<u>Conclusion:</u> The US has a changing identity and sense of self as a whole

<u>Article Title:</u> S80. Individual Differences of Spontaneous Angular Gyrus Brain Activity in Dissociating Moral Injury and Post-traumatic Stress Disorder.	<u>Category:</u> Qualitative	<u>Purpose:</u> Use Magnetic Resonance Imaging on 26 participants to show that moral injury and PTSD are distinct and dissociable neural correlates
<u>First Author:</u> Sun, Delin		<u>Conclusion:</u> PTSD and moral injury are distinct entities

<u>Article Title:</u> Dirty hands and moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral injury in political leadership
<u>First Author:</u> Wiinikka-Lydon, Joseph		<u>Conclusion:</u> Moral injury is part of the “dirt” of a political leader’s decisions to do wrong in order to do good

<u>Article Title:</u> Occupational moral injury and mental health: systematic review and meta-analysis.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine mental health outcomes associated with occupational moral injury
<u>First Author:</u> Williamson, Victoria		<u>Conclusion:</u> Moral injury is related to PTSD, it can result in negative cognitions, and it has an effect on suicidality

<u>Article Title:</u> Moral injury, post-traumatic stress disorder, and religious involvement among US veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine 120 veterans for the relationship between moral injury and PTSD as well as the impact of religious involvement (RI)
<u>First Author:</u> Youssef, Nagy A.		<u>Conclusion:</u> RI did impact the relationship of moral injury and PTSD in veterans who did not deploy to the Middle-East

<u>Article Title:</u> Interest among veterans in spiritually-oriented therapy for inner conflict/moral injury in the setting of PTSD.	<u>Category:</u> Quantitative	<u>Purpose:</u> Study 464 veterans with PTSD for interest in Spiritually-Oriented Therapy (SOT)
<u>First Author:</u> Youssef, Nagy A.		<u>Conclusion:</u> Many veterans are interested in SOT

<u>Article Title:</u> Moral injury process and its psychological consequences among Israeli combat veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Survey 191 Israeli combat veterans for moral injury and PTSD
<u>First Author:</u> Zerach, Gabi		<u>Conclusion:</u> Moral injury is related to PTSD via depression, guilt, shame, and self-disgust

<u>Article Title:</u> Moral injury, religiosity, and suicide risk in US veterans and active-duty military with PTSD symptoms.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 570 veterans and active-duty military for PTSD, moral injury, religiosity, and suicide risk
<u>First Author:</u> Ames, Donna		<u>Conclusion:</u> Religiosity is unrelated to suicide risk. Moral injury is strongly associated with risk factors for suicide with PTSD symptoms

<u>Article Title:</u> Moral injury and PTSD: often co-occurring yet mechanistically different.	<u>Category:</u> Qualitative	<u>Purpose:</u> Use functional Magnetic Resonance Imaging scans to look at moral injury and PTSD
<u>First Author:</u> Barns, Haleigh A.		<u>Conclusion:</u> Neural correlates of PTSD and moral injury differ in part

<u>Article Title:</u> The relation between adverse childhood experiences and moral injury in the Canadian Armed Forces.	<u>Category:</u> Qualitative	<u>Purpose:</u> Evaluate 33 Canadian personnel for PTSD, moral injury, and Adverse Childhood Experiences (ACE)
<u>First Author:</u> Battaglia, Anthony M.		<u>Conclusion:</u> Significant relationship between childhood emotional abuse and moral injury in adulthood

<u>Article Title:</u> Associations among exposure to potentially morally injurious experiences, spiritual injury, and alcohol use among combat veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 380 combat veterans and Potentially Morally Injurious Experiences (PMIEs), spiritual injury, and alcohol use
<u>First Author:</u> Battles, Allison R.		<u>Conclusion:</u> PMIEs and spiritual injury were related with increased alcohol use

<u>Article Title:</u> A Service Member's experience of Acceptance and Commitment Therapy for Moral Injury (ACT-MI) via telehealth: "Learning to accept my pain and injury by reconnecting with my values and starting to live a meaningful life".	<u>Category:</u> Qualitative	<u>Purpose:</u> Examine Acceptance and Commitment Therapy for Moral Injury (ACT-MI) in a service member
<u>First Author:</u> Borges, Lauren M.		<u>Conclusion:</u> Service member reported significant changes engaging with their values and moral pain

<u>Article Title:</u> Veterans' perspectives on discussing moral injury in the context of evidence-based psychotherapies for PTSD and other VA treatment.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 14 combat veterans about if moral injury was discussed during their PTSD treatment sessions
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<u>First Author:</u> Borges, Lauren M.		<u>Conclusion:</u> A majority of veterans identified moral injury persisting within a year of completing their treatments
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<u>Article Title:</u> The invisible battle: A descriptive study of religious/spiritual struggles in Veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 178 veterans who reported a religious/spiritual (R/S) struggle
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<u>First Author:</u> Breuninger, Matthew M.		<u>Conclusion:</u> R/S struggles constitute part of the presenting problems in veterans and should be addressed with chaplains
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<u>Article Title:</u> Provider perspectives on a novel moral injury treatment for veterans: Initial assessment of acceptability and feasibility of the Impact of Killing treatment materials.	<u>Category:</u> Qualitative	<u>Purpose:</u> Ten medical providers were given materials for Impact of Killing (IOK) treatments
<u>First Author:</u> Burkman, Kristine		<u>Conclusion:</u> All providers found IOK acceptable and feasible as an approach for addressing moral injury

<u>Article Title:</u> Development and validation of the moral injury scales for youth.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 473 students to test the Moral Injury Scales for Youth (MISY)
<u>First Author:</u> Chaplo, Shannon D.		<u>Conclusion:</u> MISY is a psychometrically consistent and valid measure of moral injury in youth populations

<u>Article Title:</u> Meaning in life moderates the association between morally injurious experiences and suicide ideation among US combat veterans: Results from the National Health and Resilience in Veterans Study.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 564 veterans for morally injurious events and suicide ideation
<u>First Author:</u> Corona, Christopher D.		<u>Conclusion:</u> Veterans reporting higher levels of morally injurious events in the presence of higher levels of global meaning are less likely to experience suicide ideation

<u>Article Title:</u> Moral injury and spiritual struggles in military veterans: A latent profile analysis.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 916 war zone veterans for emotional, relational, and spiritual suffering
<u>First Author:</u> Currier, Joseph M.		<u>Conclusion:</u> Those with severe spiritual struggles attributed them with a higher power.

<u>Article Title:</u> Temporal associations between moral injury and post-traumatic stress disorder symptom clusters in military veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 182 veterans with moral injury and PTSD
<u>First Author:</u> Currier, Joseph M.		<u>Conclusion:</u> Moral injury should be assessed in those who struggle with PTSD, particularly with moral distress

<u>Article Title:</u> Moral injury, substance use, and posttraumatic stress disorder symptoms among military personnel: an examination of trait mindfulness as a moderator.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 244 military personnel who deployed and moral injury, substance use, and PTSD
<u>First Author:</u> Davis, Rachel L.		<u>Conclusion:</u> Moral injury could be positively associated with PTSD, alcohol misuse, and drug abuse

<u>Article Title:</u> Roles of guilt cognitions in trauma-related sleep disturbance in military veterans with post-traumatic stress disorder.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 50 veterans with PTSD for guilt cognitions and nightmares
<u>First Author:</u> Dedert, Eric A.		<u>Conclusion:</u> The association of combat exposure to trauma-related sleep disturbance is significantly influenced by perceived guilt related to the traumatic event

<u>Article Title:</u> Military moral injury: An evidence-based and intercultural approach to spiritual care.	<u>Category:</u> Theoretical	<u>Purpose:</u> Explore an evidence-based intercultural approach to spiritual care of military moral injury
<u>First Author:</u> Doehring, Carrie		<u>Conclusion:</u> Spiritual care begins with the shared anguish of moral injury using meaningful spiritual practices to help veterans accept inner emotions

<u>Article Title:</u> Introduction to the special issue on military moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Introduction of moral injury
<u>First Author:</u> Doehring, Carrie		<u>Conclusion:</u> Moral injury exists within the military

<u>Article Title:</u> Is and ought: Descriptive and prescriptive cognitions in military-related moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Clarify types of cognitions involved with moral injury
<u>First Author:</u> Farnsworth, Jacob K.		<u>Conclusion:</u> Assessment of discriptive and perspective cognitions in moral injury should be considered

<u>Article Title:</u> What Ought We to Do With “Thick Terms”? A Response to Frankfurt & Coady’s “Bringing Philosophy to Bear on Moral Injury and Posttraumatic Stress Disorder Construct Validation”.	<u>Category:</u> Theoretical	<u>Purpose:</u> Directions for future research on moral injury
<u>First Author:</u> Farnsworth, Jacob K.		<u>Conclusion:</u> Concentrate on the processes that give rise to content-levels and the philosophical, empirical, and professional questions that they imply

<u>Article Title:</u> Moving Moral Injury Into the Future With Functional Contextualism: A Response to Nash’s “Unpacking Two Models for Understanding Moral Injury”(2019)	<u>Category:</u> Theoretical	<u>Purpose:</u> Advocate for a functional contextual approach to moral injury
<u>First Author:</u> Farnsworth, Jacob K.		<u>Conclusion:</u> Moral injury and evolutionary science would promote moral humility and decrease stigma

<u>Article Title:</u> Sustaining lamentation for military moral injury: Witness poetry that bears the traces of extremity.	<u>Category:</u> Theoretical	<u>Purpose:</u> Advocate for witness poetry to help treat moral injury
<u>First Author:</u> Fawson, Shawn		<u>Conclusion:</u> Witness poetry can help recognize the grievous losses of moral injury

<u>Article Title:</u> The Association Between Moral Injury and Substance Use Among Israeli Combat Veterans: the Mediating Role of Distress and Perceived Social Support.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 191 Israeli combat veterans for moral injury and substance use
<u>First Author:</u> Feingold, Daniel		<u>Conclusion:</u> Perceived social support may play a role in the link between moral injury and use of different substances

<u>Article Title:</u> Morally injurious experiences and mental health: The moderating role of self-compassion	<u>Category:</u> Quantitative	<u>Purpose:</u> Survey 203 military veterans for moral injury and mental/behavioral health outcomes
<u>First Author:</u> Forkus, Shannon R.		<u>Conclusion:</u> Self-compassion significantly moderated the connection between exposure to morally injurious experiences and PTSD, depression, and self-harm

<u>Article Title:</u> Bringing philosophy to bear on moral injury and posttraumatic stress disorder construct validation: commentary on Farnsworth (2019).	<u>Category:</u> Theoretical	<u>Purpose:</u> Differentiating moral injury and PTSD is premature
<u>First Author:</u> Frankfurt, Sheila B.		<u>Conclusion:</u> Need a trauma theory that accounts for descriptive, evaluative, cognitive, and affective elements of trauma

<u>Article Title:</u> Insights into moral injury and soul repair from classical Jewish texts.	<u>Category:</u> Theoretical	<u>Purpose:</u> Use Jewish texts to provide insight into moral injury
<u>First Author:</u> Geringer, Kim S.		<u>Conclusion:</u> Jewish texts can deepen an understanding of moral injury

<u>Article Title:</u> Moral injury: an integrative review.	<u>Category:</u> Theoretical	<u>Purpose:</u> Literature review of studies on moral injury from 2009-2019
<u>First Author:</u> Giffin, Brandon J.		<u>Conclusion:</u> Definitions of moral injury vary, has a unique pathology and trajectory, exposure to moral injury events does not always lead to moral injury, no precise classification of moral injury

<u>Article Title:</u> Moral injury and the struggle for recognition of women living with HIV/AIDS in Indonesia.	<u>Category:</u> Quantitative	<u>Purpose:</u> Study 33 women living with HIV/AIDS
<u>First Author:</u> Halimatusa'diyah, Iim		<u>Conclusion:</u> Women are more likely to survive the negative impacts of moral injury when they receive adequate support

<u>Article Title:</u> Glimmers of the infinite: The tragedy of moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral injury and faith
<u>First Author:</u> Hansen, Christopher		<u>Conclusion:</u> Moral injury is the shattering of faith and the moral disappointment by the gruesome reality of warfare

<u>Article Title:</u> “I knew it was wrong the moment I got the order”: A narrative thematic analysis of moral injury in combat veterans.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview eight veterans who experienced Morally Injurious Events (MIEs) during combat deployments.
<u>First Author:</u> Held, Philip		<u>Conclusion:</u> Explore the specific context in which the MIE occurred and examine the veterans’ appraisal of the MIE

<u>Article Title:</u> Moral Injury or Burnout?	<u>Category:</u> Theoretical	<u>Purpose:</u> Discuss differences between moral injury and burnout
<u>First Author:</u> Heston, Thomas F.		<u>Conclusion:</u> Moral injuries require different treatments than burnout within the healthcare setting

<u>Article Title:</u> A latent profile analysis of moral injury appraisals in refugees.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 221 refugees for moral injury
<u>First Author:</u> Hoffman, Joel		<u>Conclusion:</u> Various outcome variables for moral injury due to traumatic events

<u>Article Title:</u> Muslims in the US Military: Moral Injury and Eroding Rights.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral injury in Muslim military personnel
<u>First Author:</u> Hosein, Shareda		<u>Conclusion:</u> Muslim military personnel are subject to moral stress and injury as a result of their religion being ridiculed and distorted

<u>Article Title:</u> The return of the traumatized army veteran: a qualitative study of UK ex-servicemen in the aftermath of war, 1945 to 2000.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 225 British Army veterans about their psychological disorders
<u>First Author:</u> Jones, Edgar		<u>Conclusion:</u> Over time, there was a greater acceptance of post-traumatic illness in the military

<u>Article Title:</u> The Role of Strategic Ambiguity in Moral Injury: A Case Study of Dutch Border Guards Facing Moral Challenges.	<u>Category:</u> Qualitative	<u>Purpose:</u> Illustrate the strategic ambiguity in moral injury
<u>First Author:</u> Kalkman, Jori Pascal		<u>Conclusion:</u> Disengaging from moral challenges and embracing moral conflicts both lead to moral injury

<u>Article Title:</u> Sex differences in mental health symptoms and substance use and their association with moral injury in veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 156 males and 110 females for sex differences in atrocities, cognitive/emotional changes in combat, and leadership betrayal
<u>First Author:</u> Kelley, Michelle L.		<u>Conclusion:</u> Sex differences were not associated with mental health and substance use.

<u>Article Title:</u> Moral injury and suicidality among combat-wounded veterans: The moderating effects of social connectedness and self-compassion.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 189 combat wounded veterans for moral injury and suicidality
<u>First Author:</u> Kelley, Michelle L.		<u>Conclusion:</u> Mindfulness, social connectedness, and overidentification are relevant to understand the increased/decreased vulnerability of veterans to exhibit suicidality when experiencing moral injury

<u>Article Title:</u> Assessment of moral injury in veterans and active-duty military personnel with PTSD: A review.	<u>Category:</u> Theoretical	<u>Purpose:</u> Review 22 studies that assessed moral injury
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<u>First Author:</u> Koenig, Harld G.		<u>Conclusion:</u> Future research is required to identify cutoff scores as well as clinically significant change scores
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<u>Article Title:</u> A preliminary study examining the prevalence and perceived intensity of morally injurious events in a veterans affairs chaplaincy spiritual injury support group.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 84 veterans using the Moral Injury Events Scale (MIES)
<u>First Author:</u> Kopacz, Marek S		<u>Conclusion:</u> No significant correlations between moral injury and either religiosity or spirituality

<u>Article Title:</u> Accessible spiritual practices to aid in recovery from moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Spiritual practices can heal wounded spirits
<u>First Author:</u> Liebert, Elizabeth A.		<u>Conclusion:</u> Recovery can be facilitated by spiritual caregivers and other supporters

<u>Article Title:</u> Introduction to the special issue on moral injury: Conceptual challenges, methodological issues, and clinical applications.	<u>Category:</u> Theoretical	<u>Purpose:</u> Propose future directions of research
<u>First Author:</u> Litz, Brett T.		<u>Conclusion:</u> Explore exposure and outcomes and biological and psychological studies of morality and moral emotions

<u>Article Title:</u> The role of political practices in moral injury: A study of Afghanistan veterans.	<u>Category:</u> Theoretical	<u>Purpose:</u> Look at role of political practices in the onset of moral injury
<u>First Author:</u> Molendijk, Tine		<u>Conclusion:</u> Political leadership remain silent on direct contributions to moral injury

<u>Article Title:</u> “Turn Now, My Vindication Is at Stake”: Military Moral Injury and Communities of Faith.	<u>Category:</u> Theoretical	<u>Purpose:</u> Describe how communities of faith can respond to moral injury
<u>First Author:</u> Moon, Zachary		<u>Conclusion:</u> Communities of faith should offer support and resources to military moral injury

<u>Article Title:</u> Oral History, Moral Injury, and Vietnam Veterans.	<u>Category:</u> Theoretical	<u>Purpose:</u> Oral historians might encounter moral injury in Vietnam veterans' accounts
<u>First Author:</u> Napoli, Philip F		<u>Conclusion:</u> Oral historians need to be cognizant of stories that relate to moral injury and can be traumatic

<u>Article Title:</u> Commentary on the special issue on moral injury: unpacking two models for understanding moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Trauma is not exclusively fear-evoking trauma or sexual assault
<u>First Author:</u> Nash, William P.		<u>Conclusion:</u> Moral injury includes psychological trauma

<u>Article Title:</u> Commentary on the special issue on moral injury: advances, gaps in literature, and future directions.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral injury outcomes beyond PTSD
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<u>First Author:</u> Neria, Yuval		<u>Conclusion:</u> Moral injury can include links to alcohol misuse and self-injurious behaviors
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<u>Article Title:</u> Mental Health Clinician and Community Clergy Collaboration to address moral injury in veterans and the role of the veterans affairs chaplain.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 11 veterans, 28 clergy, and 12 mental health clinicians on moral injury intervention
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<u>First Author:</u> Pyne, Jeffery M.		<u>Conclusion:</u> All three groups identified the chaplain as the ideal liaison between mental health clinicians and community clergy
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<u>Article Title:</u> Moral Injury as Loss and Grief with Attention to Ritual Resources for Care.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine potential use of ritual for practices of care as resources of healing from moral injury
<u>First Author:</u> Ramsay, Nancy J.		<u>Conclusion:</u> Public rituals for bearing witness to communal aspects of responsibility in moral injury

<u>Article Title:</u> Burnout, resilience and moral injury: How the wicked problems of health care defy solutions, yet require innovative strategies in the modern era.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine the role of healthcare politics on moral injury and burnout
<u>First Author:</u> Rozario, Duncan		<u>Conclusion:</u> Reduce institutional barriers, rapid access to resources, and moral distress

<u>Article Title:</u> Latent profile analysis exploring potential moral injury and posttraumatic stress disorder among military veteran	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 212 veterans seeking trauma recovery services
<u>First Author:</u> Smigelsky, Melissa A.		<u>Conclusion:</u> Veterans with Potential Moral Injury had higher PTSD, depression, and Trauma-Related Guilt

<u>Article Title:</u> Police moral injury, compassion fatigue, and compassion satisfaction: a brief report.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 454 police officers from the National Police of Finland for compassion fatigue and moral injury
<u>First Author:</u> Stancal, Karolina		<u>Conclusion:</u> Higher levels of compassion fatigue and moral injury were associated with low levels of compassion satisfaction

<u>Article Title:</u> Preliminary Report on a Spiritually-Based PTSD Intervention for Military Veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> 24 veterans participated in a spiritually-based group intervention
<u>First Author:</u> Starnino, Vincent R.		<u>Conclusion:</u> Veterans in the group experienced significant reductions in PTSD, spiritual injury, and negative religious coping

<u>Article Title:</u> Moral injury, coherence, and spiritual repair.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 18 participants of a spiritually integrated group intervention for PTSD
<u>First Author:</u> Starnino, Vincent R.		<u>Conclusion:</u> Participants found meaning in their trauma

<u>Article Title:</u> Development and evaluation of the Perpetration-Induced Distress Scale for measuring shame and guilt in civilian populations.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 503 participants for shame and guilt
<u>First Author:</u> Steinmetz, Sarah E.		<u>Conclusion:</u> Guilt and shame are highly overlapping variables that predict many of the same psychological responses

<u>Article Title:</u> “Staring into the abyss”: veterans’ accounts of moral injuries and spiritual challenges.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 23 veterans and their trauma-related struggles
<u>First Author:</u> Sullivan, W. Patrick		<u>Conclusion:</u> Additional treatment options that address spiritual and moral components are needed

<u>Article Title:</u> Resting-state brain fluctuation and functional connectivity dissociate moral injury from post-traumatic stress disorder.	<u>Category:</u> Quantitative	<u>Purpose:</u> Look at 26 veterans to determine how moral injury and PTSD symptoms are related to Amplitude of Low Frequency Fluctuation
<u>First Author:</u> Sun, Delin		<u>Conclusion:</u> Moral injury and PTSD are differentiated by neural responses

<u>Article Title:</u> Mapping moral injury: comparing discourses of moral harm.	<u>Category:</u> Theoretical	<u>Purpose:</u> Moral injury should be mapped into clinical, juridical-critical, and structural discourses
<u>First Author:</u> Wiinikka-Lydon, Joseph		<u>Conclusion:</u> Need for a more inclusive view of moral injury to include institutional and social violence and injustices

<u>Article Title:</u> Moral injury in UK armed forces veterans: a qualitative study.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview six veterans on their experiences with moral injury and subsequent treatments
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<u>First Author:</u> Williamson, Victoria		<u>Conclusion:</u> There is a greater need for researcher exploring current treatment effectiveness
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<u>Article Title:</u> Spiritual transformation among veterans in response to a religious/spiritual struggle.	<u>Category:</u> Quantitative	<u>Purpose:</u> Survey 178 veterans who reported a current religious/spiritual (R/S) struggle
<u>First Author:</u> Wilt, Joshua A.		<u>Conclusion:</u> Veterans with a stronger Religious Orienting System (ROS) were more likely to experience more positive spiritual and struggle-related outcomes durring R/S struggles

<u>Article Title:</u> Moral injury and human relationship: A conversation.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine the human element of moral injury
<u>First Author:</u> Yandell, Michael		<u>Conclusion:</u> Moral injury is about human relationships and conscience

<u>Article Title:</u> Defining and measuring moral injury: rationale, design, and preliminary findings from the moral injury outcome scale consortium.	<u>Category:</u> Quantitative	<u>Purpose:</u> Interview 26 care providers for exposure to moral injury
<u>First Author:</u> Yeterian, Julie D.		<u>Conclusion:</u> Outcomes related to acts of commission or omission and events involving others' transgressions may overlap

<u>Article Title:</u> Intolerance of Uncertainty Moderates the Association Between Potentially Morally Injurious Events and Suicide Ideation and Behavior Among Combat Veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 191 Israeli combat veterans for moral injury and suicide ideation
<u>First Author:</u> Zerach, Gadi		<u>Conclusion:</u> Uncertainty played a moderating role in the link between moral injury and suicide

<u>Article Title:</u> Walking Together in Exile: Medical Moral Injury and the Clinical Chaplain.	<u>Category:</u> Theoretical	<u>Purpose:</u> Relate moral injury in the military to the clinical setting
<u>First Author:</u> Alexander, David William		<u>Conclusion:</u> Moral injury in veterans can inform care for physicians experiencing burnout

<u>Article Title:</u> A commentary on moral injury among health care providers during the COVID-19 pandemic.	<u>Category:</u> Theoretical	<u>Purpose:</u> Moral injury extends beyond the military
<u>First Author:</u> Borges, Lauren M.		<u>Conclusion:</u> Health care providers are experiencing morally injurious events as a result of the COVID-19 pandemic

<u>Article Title:</u> Moral Injury and Social Well-Being: A Growth Curve Analysis.	<u>Category:</u> Quantitative	<u>Purpose:</u> Examine 9,566 veterans and moral injury
<u>First Author:</u> Chesnut, Ryan P.		<u>Conclusion:</u> Self- and other-directed moral injury reactions have varying effects

<u>Article Title:</u> Validation of the Expressions of Moral Injury Scale-Military version-Short Form.	<u>Category:</u> Theoretical	<u>Purpose:</u> Evaluate the reliability and validity of the Expression of Moral Injury Scale-Military Version-Short Form (EMIS-M-SF)
<u>First Author:</u> Currier, Joseph M.		<u>Conclusion:</u> The EMIS-M-SF is a reliable and valid assessment of overall outcomes to possible moral injury

<u>Article Title:</u> The Warrior's Journey Intervention: A Chaplain-Led Motivational, Preparatory Exercise for Enhancing Treatment Success.	<u>Category:</u> Qualitative	<u>Purpose:</u> Present a case study of the Warrior's Journey Intervention (WJI)
<u>First Author:</u> Fleming, Wesley H.		<u>Conclusion:</u> WJI is supposed to promote motivation for treatment and reduce symptoms of PTSD and moral injury

<u>Article Title:</u> Characterizing religious and spiritual struggles in US veterans: A qualitative study.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 22 veterans to highlight the connection between spiritual/emotional well-being and religious/spiritual struggles
<u>First Author:</u> Fletcher, Terri L.		<u>Conclusion:</u> Religious and spiritual struggles result in lower spiritual/emotional well-being in veterans

<u>Article Title:</u> Psychological trauma and moral injury in religious leaders during COVID-19.	<u>Category:</u> Theoretical	<u>Purpose:</u> Moral injury impacts religious leaders
<u>First Author:</u> Greene, Talya		<u>Conclusion:</u> As a result of the COVID-19 pandemic, religious leaders are exposed to morally injurious events

<u>Article Title:</u> Moral injury among Akan women: Lessons for culturally sensitive child welfare interventions.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 21 widows in the Akan culture
<u>First Author:</u> Haight, Wendy		<u>Conclusion:</u> Akan culture empowers widows through community support for healing

<u>Article Title:</u> Invisible wounds and suicide: Moral injury and veteran mental health.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral injury and suicide rate
<u>First Author:</u> Jamieson, Nikki		<u>Conclusion:</u> Moral injury impacts suicide rate in veterans

<u>Article Title:</u> A qualitative analysis of meaning-making and mental health among OIF/OEF veterans.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 14 combat veterans post-deployment
<u>First Author:</u> Keller, Emily M.		<u>Conclusion:</u> Mental health concerns, meaning making, and consideration of mortality characterize experiences

<u>Article Title:</u> Moral injury from war and other severe trauma.	<u>Category:</u> Theoretical	<u>Purpose:</u> Explore moral injury in different occupations
<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> Moral injury exists in the military as well as among civilians and health professionals

<u>Article Title:</u> Religion and psychiatry: Recent developments in research.	<u>Category:</u> Theoretical	<u>Purpose:</u> Role of religion in moral injury and how it should be addressed in clinical practice
<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> Religion can be an asset or a liability for those suffering from moral injury

<u>Article Title:</u> Examining the overlap between moral injury and PTSD in US Veterans and active-duty military	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 591 veterans and active-duty military for moral injury and PTSD
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<u>First Author:</u> Koenig, Harold G.		<u>Conclusion:</u> Some overlap between moral injury and PTSD with negative cognitions and emotions
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<u>Article Title:</u> Recognizing and supporting morally injured ICU professionals during the COVID-19 pandemic.	<u>Category:</u> Theoretical	<u>Purpose:</u> Explore impact of COVID-19 on health care workers
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<u>First Author:</u> Kok, Niek		<u>Conclusion:</u> Health care workers experience moral distress, moral injury, and PTSD
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<u>Article Title:</u> Shattered social identity and moral injuries: Work-related conditions in health care professionals during the COVID-19 pandemic.	<u>Category:</u> Theoretical	<u>Purpose:</u> Health care professionals suffer from moral injury due to COVID-19
<u>First Author:</u> Kröger, Cristoph		<u>Conclusion:</u> Health care professionals suffer from moral injury in terms of violation of medical-ethical and social-ethical norms

<u>Article Title:</u> Moral injury in Veterans with nonepileptic seizures.	<u>Category:</u> Quantitative	<u>Purpose:</u> Test 82 veterans with Psychogenic Nonepileptic Seizures (PNES) for moral injury
<u>First Author:</u> LaFrance Jr, W. Curt		<u>Conclusion:</u> Moral injury had a presence in some veterans with PNES

<u>Article Title:</u> Moral decision making, religious strain, and the experience of moral injury.	<u>Category:</u> Quantitative	<u>Purpose:</u> Survey 120 combat veterans
<u>First Author:</u> Lancaster, Steven L.		<u>Conclusion:</u> Religious functioning and moral decision making are important aspects of the experience of moral injury

<u>Article Title:</u> Recognizing moral injury: toward legal intervention for physician burnout.	<u>Category:</u> Theoretical	<u>Purpose:</u> Moral injury needs more attention in healthcare
<u>First Author:</u> Lennon, Robert P.		<u>Conclusion:</u> Moral injuries unaddressed by ethical codes in healthcare need more interventions and research

<u>Article Title:</u> Moral injury and suicide ideation among Israeli combat veterans: the contribution of self-forgiveness and perceived social support.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 191 Israeli combat veterans for moral injury and suicide ideation
<u>First Author:</u> Levi-Belz, Yossi		<u>Conclusion:</u> Self-forgiveness and social support contribute to lower suicide ideation levels in veterans with moral injury

<u>Article Title:</u> Associations between moral injury, PTSD clusters, and depression among Israeli veterans: a network approach.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 191 Israeli combat veterans for moral injury and PTSD
<u>First Author:</u> Levi-Belz, Yossi		<u>Conclusion:</u> Moral injuries related to betrayal are linked to PTSD directly through depressive symptoms

<u>Article Title:</u> Response to Zalta and Held's "Commentary on the Special Issue on Moral Injury: Leveraging Existing Constructs to Test the Heuristic Model of Moral Injury".	<u>Category:</u> Theoretical	<u>Purpose:</u> Expand the existing commentary
<u>First Author:</u> Litz, Brett T.		<u>Conclusion:</u> Accommodate any moral emotions and all dimensions of responses to exposure to moral injury

<u>Article Title:</u> Moral injury in the wake of coronavirus: Attending to the psychological impact of the pandemic.	<u>Category:</u> Theoretical	<u>Purpose:</u> Health care workers and moral injury
<u>First Author:</u> Maguen, Shira		<u>Conclusion:</u> Health care workers suffer from moral injury due to the COVID-19 pandemic

<u>Article Title:</u> Identifying Moral Injury in Healthcare Professionals: The Moral Injury Symptom Scale-HP.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 181 health professionals using the Moral Injury Symptom Scale-Healthcare Professionals (MISS-HP)
<u>First Author:</u> Mantri, Sneha		<u>Conclusion:</u> MISS-HP is a reliable and valid measure to screen moral injury in health professionals

<u>Article Title:</u> Shame: Conceptual Complexity and Influence on Mental Health in Military Populations.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine shame and mental health in the military
<u>First Author:</u> Mash, Holly B. Herberman		<u>Conclusion:</u> Shame impacts suicidality and depression in the military

<u>Article Title:</u> Help-seeking for mental health issues in deployed Canadian Armed Forces personnel at risk for moral injury.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 4,854 Canadian veterans for exposure to morally injurious experiences
<u>First Author:</u> Nazarov, Anthony		<u>Conclusion:</u> Those with exposure to morally injurious experiences are less likely to seek out specialized mental health professionals

<u>Article Title:</u> The Impact of Post-traumatic Stress Disorder and Moral Injury on Women Veterans' Perinatal Outcomes Following Separation From Military Service.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 318 women who became pregnant after separating from the military
<u>First Author:</u> Nillni, Yael I.		<u>Conclusion:</u> Moral injury and PTSD symptoms are associated with adverse perinatal outcome

<u>Article Title:</u> The role of moral injury in PTSD among law enforcement officers: a brief report.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 370 law enforcement officers from the National Police of Finland for moral injury and PTSD
<u>First Author:</u> Papazoglou, Konstantinos		<u>Conclusion:</u> Moral injury significantly predicted PTSD

<u>Article Title:</u> Moral Injury in Literature.	<u>Category:</u> Theoretical	<u>Purpose:</u> Examine moral injury in literary trauma
<u>First Author:</u> Pederson, Joshua		<u>Conclusion:</u> Moral injury is illustrated throughout the field of literary trauma studies

<u>Article Title:</u> Examining the factor structure of the moral injury events scale in a veteran sample.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 5,227 veterans for moral injury
<u>First Author:</u> Richardson, Cameron B.		<u>Conclusion:</u> There is no distinction between exposure to and reaction to morally injurious events

<u>Article Title:</u> Examining the factor structure of the moral injury events scale in a veteran sample.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 5,227 veterans for moral injury
<u>First Author:</u> Richardson, Cameron B.		<u>Conclusion:</u> There is no distinction between exposure to and reaction to morally injurious events

<u>Article Title:</u> Defining moral injury among military populations: a systematic review.	<u>Category:</u> Theoretical	<u>Purpose:</u> Conduct a literature review of moral injury definitions
<u>First Author:</u> Richardson, Natalie M.		<u>Conclusion:</u> There are 12 critical definitions with 9 different themes

<u>Article Title:</u> Religion, spirituality, and suicide risk in Iraq and Afghanistan era veterans.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 1,002 veterans for spirituality
<u>First Author:</u> Smigelsky, Melissa A.		<u>Conclusion:</u> Clinical screening for spiritual difficulties can improve detection of suicidality risk factors when used with chaplains

<u>Article Title:</u> Like a Blanket Over a Fire: Group Work and Spiritual Repair in Military Trauma.	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 18 participants who completed a spiritually integrated intervention called Search for Meaning
<u>First Author:</u> Starnino, Vincent R.		<u>Conclusion:</u> Specialized interventions can supplement PTSD treatments

<u>Article Title:</u> A critical review: moral injury in nurses in the aftermath of a patient safety incident.	<u>Category:</u> Theoretical	<u>Purpose:</u> Review research on nurses and moral injury
<u>First Author:</u> Stovall, Mady		<u>Conclusion:</u> More training and intervention programs for addressing moral injury in healthcare is needed

<u>Article Title:</u> Moral Injury Among Professionals in K–12 Education.	<u>Category:</u> Quantitative	<u>Purpose:</u> Assess 218 licensed education professionals for moral injury
<u>First Author:</u> Sugrue, Erin P.		<u>Conclusion:</u> There is a necessity for more in-depth understanding of the potential sources of moral injury in the education system

<u>Article Title:</u> The impact of trauma exposure and moral injury on UK military veterans: a qualitative study	<u>Category:</u> Qualitative	<u>Purpose:</u> Interview 30 British veterans for moral injury
<u>First Author:</u> Williamson, Victoria		<u>Conclusion:</u> Veterans can simultaneously be morally injured and traumatized by the same event

<u>Article Title:</u> Commentary on the special issue on moral injury: Leveraging existing constructs to test the heuristic model of moral injury.	<u>Category:</u> Theoretical	<u>Purpose:</u> Distinguish between guilt and shame
<u>First Author:</u> Zalta, Alyson K.		<u>Conclusion:</u> Different factors in the development of moral injury exist

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