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TITLE: Trauma-Informed Guilt Reduction (TrIGR) Intervention

PRINCIPAL INVESTIGATOR: Sonya Norman, PhD

CONTRACTING ORGANIZATION: Veterans Medical Research Foundation
San Diego, CA 92161

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Fort Detrick, Maryland  21702-5012

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14. ABSTRACT
Posttraumatic guilt and shame are common among Veterans and have been implicated in the development and maintenance of posttraumatic distress and a range of adverse outcomes, including posttraumatic stress disorder (PTSD), depression and suicidality, and alcohol/substance use disorders. There is a pressing need for effective treatments targeting transdiagnostic mechanisms such as guilt. We developed Trauma Informed Guilt Reduction (TrIGR) therapy as a therapeutic tool to help Veterans accurately appraise deployment-related guilt and to re-identify and re-engage with their values. The overall objective of this study is to examine the efficacy of TrIGR in reducing deployment-related guilt. The overarching hypothesis is that TrIGR will reduce guilt, shame, and related distress, and these improvements will be significantly greater than in the comparison condition, Supportive Care Therapy (SCT). The study is a Stage 2 randomized, controlled trial of TrIGR compared to SCT. Recruitment of participants takes place at two VA Medical Centers (San Diego, CA and Providence, RI). 150 OEF/OIF Veterans will be randomized to TrIGR or SCT. All eligible participants complete an in-person baseline assessment, receive 6 sessions of TrIGR or SCT in individual format, complete brief bi-weekly self-report measures during treatment, and complete follow-up assessments immediately post-treatment, and 3- and 6-months later.

15. SUBJECT TERMS
Guilt, shame, deployment, posttraumatic, distress, PTSD, depression, functioning, psychotherapy, intervention

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INTRODUCTION:
Posttraumatic guilt and shame are common among Veterans and have been implicated in the development and maintenance of posttraumatic distress and a range of adverse outcomes, including posttraumatic stress disorder (PTSD), depression and suicidality, and alcohol/substance use disorders. There is a pressing need for effective treatments targeting transdiagnostic mechanisms such as guilt. We developed Trauma Informed Guilt Reduction (TrIGR) therapy as a therapeutic tool to help Veterans accurately appraise deployment-related guilt and to re-identify and re-engage with their values. Our previous pilot studies of TrIGR with OEF/OIF/OND Veterans and active duty Marines showed reductions in guilt distress and severity, PTSD symptoms, and depression with medium to large effect sizes. The overall objective of this study is to examine the efficacy of TrIGR in reducing deployment-related guilt. The overarching hypothesis is that TrIGR will reduce guilt, shame, and related distress, and these improvements will be significantly greater than in the comparison condition, Supportive Care Therapy (SCT). The study is a Stage 2 randomized, controlled trial of TrIGR compared to SCT. Recruitment of participants takes place at two VA Medical Centers (San Diego, CA and Providence, RI). 150 OEF/OIF Veterans will be randomized to TrIGR or SCT. All eligible participants complete an in-person baseline assessment, receive 6 sessions of TrIGR or SCT in individual format, complete brief bi-weekly self-report measures during treatment, and complete follow-up assessments immediately post-treatment, and 3- and 6-months later.

KEYWORDS
Guilt, shame, deployment, posttraumatic, distress, PTSD, depression, functioning, psychotherapy, intervention

ACCOMPLISHMENTS
What were the major goals of the project?
Per our Statement of Work (SOW), effort was expended on the following milestones and subtasks during this second year:

Major Task 1: Start-up Activities
Subtask 1: Prepare Regulatory Documents and Research Protocol (Month 1).
Progress: Subtask 1 completed.
Subtask 2: Obtain regulatory approvals (VA, DoD, affiliated institutions) (Months 2-3).
Progress: Completed.
Subtask 3: Hire and train all study personnel (Months 0-6).
Progress: Completed.
Subtask 4: Set up data entry and management procedures (Months 3-7).
Progress: Completed.

Major Task 2: Conduct RCT
Subtask 1: Enroll 75 at San Diego site (Months 6-34).
Progress: We enrolled thirty-five people by the end of September.
Subtask 2: Randomize to study condition (TrIGR or SCT) (Months 6-34).
Progress: We have randomized twenty-five participants.
Subtask 3: Deliver study interventions (Months 6-36).
Progress: Twenty-five are currently in or have completed treatment.
Subtask 4: Conduct assessments (Months 8-42).
Progress: Assessments are in progress per protocol.
Subtask 5: Data collection (6-42).
Progress: Data collection is in progress per protocol.
232 participants have been recruited/referred to the study. We have screened 69 participants since we launched recruitment. Of these, 52 screened eligible and 17 screened ineligible. 152 of the referred participants were not screened (72 could not be reached, 73 were not interested in screening after the study was explained, 1 had moved out of the area so screening was not conducted, 6 prefer to wait to be screened due to personal reasons). 11 who were recruited from other research studies have been contacted by letter and will be followed up with by phone in the upcoming year to determine their interest in the study (per IRB requirements).

We have consented 35 participants and randomized 25. The original planned target was 45. Of the 52 participants who screened eligible, 17 were not consented by 9/30/17: (1 did not want to do research, 1 was not ready to talk about their trauma, 9 could not be reached to schedule consent appointment, 1 moved out of the area, 4 are no longer interested in the study, 1 preferred to schedule the consent appointments after completed another trauma treatment). 10 of the 35 consented participants were not randomized – 5 were not eligible after baseline assessments, 5 were not able to be reached after the consent/baseline appointment.

8 participants have completed the study, 4 of whom completed all assessments, all others are still in progress.

➢ What was accomplished under these goals?
The major activities of for the past FY were continuing study recruitment, enrollment, intervention, and data collection. We continued to raise awareness of the study with clinics and providers who see patients appropriate for our study to ensure they were referring to the study. We worked with our IRB to get approval to re-contact Veterans who had participated in other studies and had given approval to be re-contacted about future studies. We also began advertising more broadly across the VA medical center and the local community.

➢ What opportunities for training and professional development has the project provided?
We have several psychology trainees (doctoral student, post-doctoral fellows, volunteers participating in study activities to learn about how to conduct randomized clinical trials.

➢ How were the results disseminated to communities of interest?
Nothing to Report

➢ What do you plan to do during the next reporting period to accomplish the goals?
During the next reporting period, we will focus on the milestones and subtasks as detailed in our SOW. Specifically, we will continue to: 1) enroll participants; and 2) randomize participants; 3) deliver study interventions; and 4) conduct data collection. We will continue to focus on our recruitment efforts by continuing to build relationships with referring clinics and providers, advertising within the VA and to the broader Veteran community in San Diego, building relationships with Veteran agencies and organizations in the community, and advertising to Veteran groups at local universities and colleges. We will continue to pre-screen Veterans who gave consent in other studies to be contacted by future studies and have begun contacting potentially eligible veterans.

4. IMPACT
➢ What was the impact on the development of the principal discipline(s) of the project?
Nothing to Report

- What was the impact on other disciplines?
  Nothing to Report

- What was the impact on technology transfer?
  Nothing to Report

- What was the impact on society beyond science and technology?
  Nothing to Report

5. CHANGES/PROBLEMS
  Nothing to Report

6. PRODUCTS

- Publications, conference papers, and presentations
  Nothing to Report

- Website(s) or other Internet site(s)
  Nothing to Report

- Technologies or techniques
  Nothing to Report

- Inventions, patent applications, and/or licenses
  Nothing to Report

- Other Products
  Nothing to Report

7. PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS

- What individuals have worked on the project?
  Name: Sonya Norman, PhD
  Project Role: Principal Investigator
  Researcher Identifier (e.g. ORCID ID): 0000-0002-4751-1882
  Nearest person month worked: 3 person months
  Contribution to Project: Dr. Norman oversees all aspects of the study including recruitment, enrollment, and data collection.
  Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

  Name: Shahrokh Golshan, PhD
  Project Role: Statistician
  Researcher Identifier (e.g. ORCID ID): N/A
  Nearest person month worked: 1.2 person months
  Contribution to Project: Dr. Golshan prepared databases and prepared the data entry system.
  Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

  Name: Ariel Lang, PhD
  Project Role: Co-Investigator
  Researcher Identifier (e.g. ORCID ID): 0000-0002-2468-115X
  Nearest person month worked: 1 person month
Contribution to Project: Dr. Lang meets with the assessors weekly and reviews all assessments.

Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Carolyn Allard, PhD  
Project Role: Co-Investigator  
Researcher Identifier (e.g. ORCID ID): N/A  
Nearest person month worked: 1.8 person months  
Contribution to Project: Dr. Allard ran supervision meetings.

Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Paula Schnurr, PhD  
Project Role: Co-Investigator  
Researcher Identifier (e.g. ORCID ID): 0000-0002-6195-716X  
Nearest person month worked: 1.2 person months  
Contribution to Project: Dr. Schnurr provided consultation on the clinical trial design and implementation issues.

Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Kendall Browne, PhD  
Project Role: Co-Investigator  
Researcher Identifier (e.g. ORCID ID): 0000-0002-5305-2897  
Nearest person month worked: 2.4 person months  
Contribution to Project: Dr. Browne rated session recordings for fidelity.

Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Brittany C Davis, PhD  
Project Role: Co-Investigator  
Research Identifier (e.g. ORCID ID): N/A  
Nearest person month worked: 1.8 person months  
Contribution to Project: Dr. supervises and trains therapists.

Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Moira Haller, PhD  
Project Role: Co-Investigator  
Research Identifier (e.g. ORCID ID): N/A  
Nearest person month worked: 1 person month  
Contribution to Project: Dr. Haller supervises and trains therapists.

Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Laura Westendorf, MPH  
Project Role: Project Coordinator  
Research Identifier (e.g. ORCID ID): N/A  
Nearest person month worked: 12 person months
Contribution to Project: Laura Westendorf is responsible for coordinating all aspects of the study, is recruiting and consenting patients, managing day-to-day tasks for the study and is responsible for supporting study staff where needed.
Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Briana Boyd, PhD.
Project Role: Study Therapist
Research Identifier (e.g. ORCID ID): N/A
Nearest person month worked: 2.4 person months
Contribution to Project: Dr. Boyd is a study therapist and administers the interventions to eligible participants.
Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Colleen Kennedy, PhD.
Project Role: Study Therapist
Research Identifier (e.g. ORCID ID): N/A
Nearest person month worked: 6 person months
Contribution to Project: Dr. Kennedy is the main study therapist and administers the interventions to eligible participants.
Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Danielle K Zuest, M.A.
Project Role: Study Assessor
Research Identifier (e.g. ORCID ID): N/A
Nearest person month worked: 5 person months
Contribution to Project: Ms. Zuest is the main study assessor and conducts all intake and follow-up assessments.
Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

Name: Kimberly Hodge
Project Role: Research Assistant (SIBCR)
Research Identifier (e.g. ORCID ID): N/A
Nearest person month worked: 2.4 person months
Contribution to Project: Assists the investigators with work on the intervention condition of the study.
Funding Source: Trauma Informed Guilt Reduction (TrIGR) Intervention Grant W81XWH-15-1-0330

➢ Has there been a change in the active other support of the PD/PI(s) or senior/key personnel since the last reporting period?
   Nothing to Report

➢ What other organizations were involved as partners?
   Organization Name: Providence VA Medical Center
   Location of Organization: Providence, RI
   Partner’s contribution to the project:
Special Reporting Requirements

A. Collaborative Awards
   ➢ Providence VA Medical Center will submit a separate report.

B. Quad Charts
   ➢ Attachment I

9. Appendices
   Nothing to report
Trauma Informed Guilt Reduction (TrIGR) Intervention

PI: Sonya Norman, PhD  Org: Veterans Medical Research Foundation  Award Amount: $1,989,869

Study/Product Aim(s)
- Conduct a randomized clinical trial to determine if a six-session treatment, Trauma Informed Guilt Reduction (TrIGR), relative to supportive care therapy (SCT) at post-treatment, 3- and 6-month follow up:
  - Reduces guilt (primary aim)
- As secondary and exploratory aims, assess if TrIGR:
  - reduces distress and shame, improves quality of life
  - reduces disorder specific symptoms (PTSD, MDD)
  - reduces suicidal ideation and alcohol/substance use

Approach
We propose a stage 2 randomized clinical trial across 2 VA Medical Centers (San Diego, Providence). 150 male and female Veterans of OEF/OIF reporting guilt related to a combat event will be randomized to TrIGR or SCT and followed through treatment, 3- and 6-month follow-up. Hypotheses are that TrIGR, relative to SCT, will reduce guilt, distress, shame, disorder specific symptoms, and SI and alcohol/substance use and improve Quality of Life.

Goals/Milestones
Study Year 1 Goal — Prepare regulatory documents and research protocol
- Sign contracts, prepare protocol, and obtain approval from VA sites and USAMRMC
- Prepare, program, purchase and test all forms for study documentation
- Recruit and train research staff

Study Year 2 Goals — Participant recruitment, randomization, intervention
- Participant recruitment, randomization, pre-assessment and TrIGR/SCT
- Post-intervention, 3-month and 6-month post-treatment follow-up assessment
- Validate audio recordings of TrIGR and SCT sessions

Study Year 3 Goals — Complete enrollment and validation of TrIGR/SCT sessions
- Complete recruitment, randomization, pre-assessment, and TrIGR/SCT
- Continue post-intervention and follow up assessments at 3- and 6-months

Study Year 4 Goals — Analyze data and prepare manuscripts
- Complete follow up assessments and data entry
- Ensure data integrity
- Data analysis and manuscript preparation

Projected Expenditure: $1,019,000  Actual Expenditure: $615,192.15

Timeline and Cost

<table>
<thead>
<tr>
<th>Activities</th>
<th>FY1</th>
<th>FY2</th>
<th>FY3</th>
<th>FY4</th>
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<tbody>
<tr>
<td>Finalize procedures and approvals,</td>
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<tr>
<td>hire and train staff</td>
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<tr>
<td>Recruit, enroll, collect data</td>
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<tr>
<td>Data analysis, report preparation</td>
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<tr>
<td>Estimated Total Budget ($1,989,869)*</td>
<td>527k</td>
<td>492k</td>
<td>503k</td>
<td>468k</td>
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Updated: 10/18/2017

Study PI recently completed two open-label trials to evaluate the effectiveness of TrIGR. Participants showed significant reductions in guilt and distress over the course of treatment. Satisfaction with the intervention was extremely high.