



TASK ORDER NUMBER: W81XWH-21-9-0011-32

MTEC RESEARCH PROJECT NUMBER: MTEC-21-05-CrossCutting-032

EGS NUMBER: MT210005.032

TITLE: Protective Environments: Military Community Engagement to Prevent Firearm-Related Violence

PRINCIPAL INVESTIGATOR: Dr. Marian Betz, MD MPH

PERFORMING ORGANIZATION: University of Colorado Anschutz Medical Campus

CONTRACTING ORGANIZATION: Medical Technology Enterprise Consortium (MTEC)

REPORT DATE: October 25, 2023

TYPE OF REPORT: Annual Report

PREPARED FOR: U.S. Army Medical Research and Development Command
Fort Detrick, Maryland 21702-5012

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			5b. GRANT NUMBER N/A		
			5c. PROGRAM ELEMENT NUMBER (Can be blank if don't		
6. AUTHOR(S) Alandria Hatcher, MLT, RPT (AMT) (alandria.hatcher@ucdenver.edu); Marian Betz, MD, MPH (marian.betz@cuanschutz.edu)			5d. PROJECT NUMBER MT210005.032		
			5e. TASK NUMBER W81XWH-21-9-0011-32		
			5f. WORK UNIT NUMBER N/A		
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13. SUPPLEMENTARY NOTES					
14. ABSTRACT Project Safe Guard (PSG) is a universal brief intervention that led to increased secure storage of home firearms in a research study in the Mississippi National Guard. Our team, which includes the investigators who developed PSG, proposes to adapt and test PSG it in a 'real world' sample of active duty Airmen at Buckley Air Force Base and Buckley Garrison (host). Our overarching objective is to facilitate implementation of acceptable, effective interventions for prevention of suicide and other non-fatal and fatal violence in military populations, with a focus on voluntary reductions in firearm access during at-risk periods as a way to decrease the risk of death. In this three-year project, our goal is use community engagement to adapt PSG and to then test it in a hybrid effectiveness-implementation trial. Our proposal is responsive to RPP MTEC-21-05 and addresses two focus areas: RPP Focus Area #1 (Community Based Participatory Research, CBPR) and RPP Focus Area #3 (Effective Primary Prevention Programming).					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON Marian Betz
a. REPORT	b. ABSTRACT	c. THIS PAGE			19b. TELEPHONE NUMBER
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TABLE OF CONTENTS

ANNUAL TECHNICAL STATUS REPORT FOR	4
1. PROJECT STATUS.....	5
a. <i>Accomplishments</i>	5
b. <i>Reportable Outcomes</i>	6
c. <i>Progress Detail</i>	6
2. FUTURE PLANS	10
3. PROBLEMS / ISSUES.....	10
a. <i>Current Problems / Issues</i>	10
b. <i>Anticipated Problems / Issues</i>	11
4. FINANCIAL HEALTH.....	11
5. PERSONNEL EFFORT.....	11
6. PROTOCOL AND ACTIVITY STATUS	11
a. <i>Human Use Regulatory Protocols</i>	12
b. <i>Use of Human Cadavers for RDT&E, Education or Training</i>	13
c. <i>Animal Use Regulatory Protocols</i>	13
ANNUAL BUSINESS STATUS REPORT FOR	15
1. CURRENT STAFF.....	16
2. CURRENT EXPENDITURES	16
3. STATUS OF MILESTONES.....	16
4. NONTRADITIONAL DEFENSE CONTRACTOR PARTICIPATION	17
5. DEVIATION FROM PROJECT PLAN	17

INCLUDED ATTACHMENTS:

- 2022 Military Health System Research Symposium Abstract (Presented September 2022)



ANNUAL TECHNICAL STATUS REPORT FOR

Protective Environments: Military Community Engagement to Prevent Firearm-Related Violence

MTEC-21-05-CrossCutting-032

MT210005.032

Reporting Period: 1 October 2022 – 30 September 2023

MTEC Research Project Awardee

Principal Investigator: Marian Betz, MD, MPH

Co-Investigator: Mike Anestis, PhD

Co-Investigator: Justin Baker, PhD

Co-Investigator: AnnaBelle Bryan, MS

Co-Investigator: Craig Bryan, PsyD, ABPP

Co-Investigator: Mary Fisher, MPH

Co-Investigator: Don Nease Jr., PhD

Collaborator: Kyleanne Hunter, PhD

Project Manager: Alandria Hatcher, MLT, RPT (AMT)

Biostatistician: Ryan Peterson, PhD

Research Assistant: Megan Johnson

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Submitted: 25 October 2023



1. Project Status

a. Accomplishments

The study team's accomplishments during the second year include the completion of the following milestones:

- **Milestone 16 Completed (27-Jan-2023):** The study team received HRPO approval for Aim 2 of the project, which will include the roll out and testing of the adapted intervention at Buckley.
- **Milestone 17 Completed (13 October 2022):** The study team enrolled the target number of qualitative participants (n=40) and concluded qualitative recruitment and enrollment in Aim 1 of the study. Our efforts resulted in a robust sample of Buckley personnel across ranks and occupational specialties, as well as prevention representatives from other Department of Defense (DoD) branches.
- **Milestone 18 Completed (31 October 2022):** With the conclusion of the Aim 1 qualitative study as well as the Boot Camp Translation process, the study team integrated all necessary and appropriate adaptations to the PSG intervention for delivery at Buckley Space Force Base.
- **Milestone 19 Completed (25 January 2023):** The study team submitted their Y2Q1 report.
- **Milestone 20 Completed (25 February 2023):** All training curriculum, training materials (e.g., facilitator manual), and intervention materials (e.g., flyers, facilitator aides, etc.) were finalized.
- **Milestone 21 Completed (01 March 2023):** Two trial overview presentations were provided by Dr. Betz to Commanders on 16 February 2023 and 01 March 2023.
- **Milestone 22 Completed (24 April 2023):** The study team submitted their Y2Q2 report.
- **Milestone 23 Completed (30Apr2023):** Three Facilitator training sessions were conducted during the last reporting period in March 2023. Two in-person sessions were conducted on 22-23 March 2023, and one virtual session conducted on 30 March 2023. During this reporting period, Facilitator Pre-Training and Post-Training surveys, and Facilitator Post-Discussion surveys were completed. SBD-2 Community Pre-Discussion surveys, Peer-to-Peer discussions, and SBD-2 Community Post-Discussion surveys were launched on 03Apr2023 and completed on 30Apr2023.
- **Milestone 24 Completed (31May2023):** The SBD-2 Community First Follow-up Surveys (1-month follow-up assessments) were launched on 01May2023 and completed on 31May2023.
- **Milestone 25 Completed (26 Sept 2022):** In September 2022, the study team received local IRB exemption/approval for Aim 2 efforts.
- **Milestone 26 Completed (30Jun2023):** The SBD-2 Community Second Follow-up Surveys (2-month follow-up assessments) were launched on 01Jun2023 and completed on 30Jun2023.
- **Milestone 27 Completed (25 July 2023):** The study team submitted their Y2Q3 report.
- **Milestone 28 Completed (26 Sept 2022):** In September 2022, the study team received local IRB exemption/approval for Aim 2 efforts.
- **Milestone 29 Completed (27 Jan 2023):** The study team received HRPO approval for Aim 2 of the project, which will include the roll out and testing of the adapted intervention at Buckley.



- Milestone 30 Completed (30 Sept 2023): Drafts of educational materials and technical support for customers was created and prepared. Finals drafts of materials due on 31 October 2023, and in progress.
- Milestone 31 Completed (30 Sept 2023): Online Hub has shell and URL. Website name purchased on 17 October 2023, and vendor established for remaining web design and marketing. Web build in progress pending single source funding approval for vendor.

Additional accomplishments during the second year of performance include:

- Strong partnerships were maintained between the study team and leadership at Buckley Space Force Base (Ongoing).
- Aim 2 testing has completed, and we are in the final steps of preparation for Aim 3.
- An oral presentation was given by a study team representative at the 2023 Military Health System Research Symposium (MHSRS). The presentation, “Qualitative perceptions of suicide, domestic violence, and child access as areas of concern for firearm injury/death among service members and their families”, discussed the implementation of effective interventions for prevention of suicide and other non-fatal and fatal firearm violence in military populations.
- The project received funding for expanded aims and milestones.

b. Reportable Outcomes

- Conference presentations: S. Rachel Kennedy, PhD, MSN/MPH, RN; Makala Carrington MPH, CHES, CPH; Jessica Buck-Atkinson, MPH; Megan L. Johnson, MBA; Jayna Mocerri-Brooks, PhD, RN; Michael D. Anestis, PhD; Justin C. Baker, PhD; Mary E. Fisher, MPH, CHES; AnnaBelle O. Bryan, MS; Craig J. Bryan, PsyD, ABPP; Ian H. Stanley, PhD; Marian E. Betz, MD, MPH (2023). Qualitative perceptions of suicide, domestic violence, and child access as areas of concern for firearm injury/death among service members and their families. Oral Presentation, Military Health System Research Symposium 2023.
- Conference abstracts accepted this year:
 1. Kayla A. Meza, MPH, S. Rachel Kennedy, PhD, MSN, MPH, RN, Megan L. Johnson, MBA, Joseph A. Simonetti, MD, MPH, Jessica Buck-Atkinson, MPH, Ian H. Stanley, PhD, Kaitlyn Friedman, MSc, Raiza V. Deyto, RN, BSN, Major Rodney Ho, MD, Marian E. Betz, MD, MPH. (2022). Qualitative Research of Military Communities: Methods and Lessons Learned from Three DoD-Funded Studies. Submitted Abstract, Partnerships for Veteran and Military Health 2023. Oral presentation, poster presentation.
 2. Megan L. Johnson, MBA, Jessica Buck-Atkinson, MPH, Donald E. Nease, Jr., MD, Mary Fisher, MPH, Michael D. Anestis, PhD, Justin C. Baker, PhD, AnnaBelle O. Bryan, MS, Craig J. Bryan, PsyD, ABPP, Marian E. Betz, MD, MPH. (2022). Using community-based engagement approaches within military populations: Opportunities and challenges for developing prevention programs and enhancing community partnerships. Submitted Abstract, Partnerships for Veteran and Military Health 2023.

c. Progress Detail

Major Tasks and Subtask Progress

0. Preparation (Status: Completed January 2022) a. Establish subcontracting agreements): CU’s agreement with The Ohio State University was secured on 09 Nov 2021 and the agreement with Rutgers University was secured on 11 Jan 2022.



1. Major Task 1 (Status: Completed October 2022)
 - 1.1 Establish Boot Camp Translation (BCT) Team (Status: Completed January 2022): In partnership with the Buckley Space Force Base Community Connector, BCT Facilitators (Co-Is Nease and Fisher) confirmed participation of interested volunteers and scheduled the initial kick-off meeting for early February 2022. The final BCT Team is comprised of 13 active-duty Buckley Garrison (BGAR) servicemembers, 1 civilian BGAR employee, and two study team members.
 - 1.2 BCT Process (Status: Completed October 2022): The BCT Team met a total of four times during this reporting period, including the initial kick-off meeting. During the kick-off meeting, participants were introduced to the research on firearm violence, as well as the theory and evidence supporting PSG. Following the kick-off meeting, the team met regularly (every 1-3 weeks) during this reporting period to further discuss how PSG should be adapted for the Buckley context. Meetings will continue into the next quarter. The final two BCT Team meetings occurred during October 2022, which concluded the process. Participation waned towards the end of the process, mostly due to deployments and PSCing, however the team was still able to accomplish the following: 1) advise on the adaptation of the PSG intervention for delivery at Buckley, 2) advise on the roll-out of PSG at Buckley, 3) develop educational and promotional materials for dissemination across Buckley, and 4) develop key messaging to include in delivery of PSG at Buckley. Key learnings pertaining to using the BCT process with military populations will be reported in a manuscript to be developed in subsequent reporting periods.
 - 1.3 Qualitative Study (Status: Completed October 2022): Study team completed preparations for qualitative enrollment, including finalizing the interview and focus group guides, confirming the target participant populations, and developing a preliminary analysis and coding plan. The study team worked with BGAR partners to begin recruitment and scheduling for focus groups sessions on 08 Mar 2022. At the end of Y1Q2 reporting period, the study team corresponded with 7 interested focus group participants and had focus groups scheduled for mid -April. Interview enrollment started April 2022. The study team enrolled their final participants to reach 40 total qualitative participants from across Buckley and representative of other DoD Services. Analysis was concluded and Aim 1 qualitative findings were reported in the previous reporting period.
 - 1.4 Finalize Adapted Intervention (Status: Completed October 2022): With the conclusion of both Aim 1 qualitative data collection and the BCT process, the study team was able to finalize the adapted version of PSG to deliver at Buckley. Dissemination of manuscripts, presentations, etc. pertaining to the adapted intervention and adaptation process to continue throughout Year 2.
2. Major Task 2 (Status: In Progress)
 - 2.1 Finalize Study Design (Status: Completed March 2023): Based on feedback from Buckley personnel, the study team requested and received approval from MTEC to adjust the study design outlined in the initial project proposal. With the help

- of Buckley representatives, the study team has finalized which squadrons will be involved in the roll-out. Study measures and instruments were completed.
- 2.2 Obtain Initial Regulatory Approval for Aim 2 (Status: Completed January 2023): In September 2022, the study team received local IRB exemption/approval for Aim 2 efforts. In October 2022, the study team submitted materials for HRPO review. Full HRPO approval was received on 27 January 2023.
 - 2.3 Finalize Trial Materials (Status: Completed February 2023): Preparation of final training curriculum, training materials (e.g., facilitator manual), and intervention materials (e.g., flyers, facilitator aides, locking devices, etc.) were completed in February 2023.
 - 2.4 Provide Overview to Unit Commanders (Status: Completed March 2023): Two trial overview presentations were provided by Dr. Betz to Commanders on 16 February 2023 and 01 March 2023.
 - 2.5 Complete Trial (Status: Completed June 2023): During this reporting period, Facilitator Pre-Training and Post-Training surveys, and Facilitator Post-Discussion surveys were completed. SBD-2 Community Pre-Discussion surveys, Peer-to-Peer discussions, and SBD-2 Community Post-Discussion surveys were launched on 03Apr2023 and completed on 30Apr2023. Additionally, the SBD-2 Community First Follow-up Surveys (1-month follow-up assessments) were completed on 31May2023, and the Second Follow-up Surveys (2-month follow-up assessments) were completed on 30Jun2023. A summary of the results is provided in the table below under C. Progress Detail.
 - 2.6 Aim 2 Qualitative Study (Status: In Progress): Approval for continuation of Aim 2 Qualitative Study was granted on 18 June 2023.
 - 2.7 Report Results from Data Analysis (Status: In Progress): The study investigators are working with the study statistician and analyst to analyze the study results.
 - 2.8 Final Reports (Status: Not Started)
3. Major Task 3 (Status: In Progress)
 - 3.1. Build resources for online hub with education and technical support materials and firearm storage map (Status: In Progress): In September 2023, with expansion funding approval, the team began compiling and finalizing materials for the online hub, including the website wireframe, graphic design, and project name (“Pause to Protect”). The materials will include educational and technical support for ranges/retailers and for customers (e.g., Service Members/family and DoD embedded civilians)
 4. Major Task 4 (Status: In Progress)
 - 4.1. Submit Task 4 (program evaluation) for IRB and HRPO approval (Status: In Progress): Documents were submitted for IRB approval in October 2023
 - 4.2. Establish network around installation (Status: In Progress): The team has identified an initial installation POC at Buckley Space Force Base, as well as ranges/retailers in the proximity of the base in preparation for onboarding interested partners.
 - 4.3. Provide ongoing technical assistance to network partners (Status: In Progress): The team is finalizing SOP documents that will be available via the website. Once



partners are onboarded, the team will establish a call schedule and desired communication pathways.

4.4. Evaluate program (Status: In progress): The team has submitted evaluation questionnaires for IRB approval

5. Major Task 5: Sustainability

5.1. Summarize evaluation data (Status: Not started)

5.2. Finalize SOP for network creation and maintenance (Status: Not started)

5.3. Summarize recommendations for transition for sustainability (Status: Not started)

Human Subject Progress

1. Human subject recruitment for Aim 2 concluded. Participant totals and initial findings were included with the last quarterly report.
2. We have submitted the following local IRB amendments to date:

Aim 1

Reliance agreement amendment submitted to COMIRB: 20-AUG-2021

Reliance agreement amendment approved by COMIRB: 24-AUG-2021

Funding status update amendment submitted to COMIRB: 25-AUG-2021

Funding status update amendment approved by COMIRB: 28-AUG-2021

Administrative amendment responding to HRPO review, submitted to COMIRB: 12-OCT-2021

Administrative amendment responding to HRPO review, approved by COMIRB: 15-OCT-2021

Amendment with final qualitative recruitment protocols and materials, submitted to COMIRB: 18 Feb 2022

Amendment with final qualitative recruitment protocols and materials, approved by COMIRB: 04 Mar 2022

Administrative amendment updating study contact information, submitted to COMIRB: 21 Apr 2022

Administrative amendment updating study contact information, approved by COMIRB: 24 Apr 2022

Continuing review application submitted to COMIRB: 30 Jun 2022

Continuing review application approved by COMIRB: 12 Jul 2022

Continuing Review application submitted to COMIRB: 11 Jun 2023

Continuing review application approved by COMIRB: 18 Jun 2023

Amendment updating recruitment numbers to increase local qualitative recruitment submitted to COMIRB: 12 July 2023

Amendment updating recruitment numbers to increase local qualitative recruitment approved by COMIRB: 18 July 2023

Aim 2

No amendments to report this quarter.

Aim 3

Initial application submitted to COMIRB: 13 September 2023, pending approval



- i. No adverse events were recorded during Year 2.

2. Future Plans

With the expansion of the project, the team does not anticipate any changes to the original study timeline for Aims 1 and 2. The overall project was extended through June 2025. We do we anticipate any deviations from our amended and approved SOW for Major Tasks 1 through 5. The study team anticipates completing the following milestones during the next reporting period:

- The study team anticipates drafting one to two manuscripts concerning Aim 2 data for publication during the next reporting period.
- The team anticipates finalizing materials and launching the website (Aim 3) and onboarding partners at installation 1 (Aim 4).

3. Problems / Issues

a. Current Problems / Issues

i. Recent Problems / Issues

-The project plan was for approximately 54 Facilitators to meet the 1:10-15, Facilitator: Participant ratio. Twenty-two Facilitators were identified/volunteered and participated in the Facilitator training sessions.

-Our overall study enrollment was lower than anticipated. Prior to the launch of the project, we had a series of in-person and virtual meetings with Buckley SFB leadership and commanders. The purpose of those meetings was threefold: (1) to provide base leaders with an overview of the project protocol (e.g., surveys, interventions, target population, and roles); (2) to provide an opportunity for base leaders to ask clarifying questions and make necessary adjustments to align with base operational considerations; and (3) to secure leadership buy-in, consistent with the letter of support that was provided by base leadership at the time of the initial grant application. At these meetings, base leadership voiced full support of the project protocol as presented, and reiterated their commitment to a base-wide implementation of facilitator-delivered Project Safe Guard to SBD-2 active duty service members and embedded civilians. They did not express any hesitation about the number or length of the surveys that were necessary to conduct a formal evaluation of the effectiveness of the program.

-There were an estimated 862 active duty service members and civilians within SBD-2. Among eligible respondents, a total of 329 pre-intervention questionnaires were completed. These questionnaires were completed after our project coordinator worked with our Buckley SFB contacts to send email reminders with an encouragement to participate.

-During the intervention period, we were in regular contact with our Buckley SFB contacts to ensure that the intervention was being rolled out as discussed. We received assurance that the intervention was being rolled out. The Violence Prevention Integrator on base reported that the gun locking devices purchased as part of this protocol went quickly.

-Unfortunately, the participant accrual numbers for the two primary follow-up surveys were suboptimal. At 1-month follow-up, 68 surveys were completed; at 2-month follow-up, 37 surveys were completed. On multiple instances during the follow-up survey periods, our project team – _through emails and phone calls – _requested that reminder emails be sent out with an encouragement to participate.

-There are several potential factors that may explain the low level of participation in the surveys:



-Our contacts at Buckley SFB reported base-wide “survey fatigue.” It is possible this perception limited leadership’s willingness to send out email reminder despite prior agreement to that plan. It is also possible that “survey fatigue” limited the target group’s willingness to participate.

-There was one participant who reported to leadership that they disagreed with research on firearm-related topics in a military setting. It is possible that this participant encouraged others to not participate in the project.

-The community translation process (Aim 1 of this project) took about one year on the base. Although the community translation process was well-intentioned and sought to maximize the relevance of the intervention to individuals at Buckley SFB, it is possible that the year-long ramp-up to the trial dampened enthusiasm once the trial began (due to time commitments).

j. Expansion issues

-The expansion funding took longer than expected, so activities on Aim 3 did not begin until September 2023 (rather than 01 July 23). This has meant a faster pace of activities this fall but we expect to remain on timeline.

b. Anticipated Problems / Issues

Our study team anticipates the following problems in Year 3:

- Study team turnover: Alandria Hatcher, project coordinator, started their position on 1 August 2023. They have begun processing reports, but they are still onboarding and training.

4. Financial Health

The study was financially on track during Year 2 and cumulatively for completion as proposed within the period of performance. The amount expended in the fourth quarter of Year 2 was \$102,589.34 The amount expended cumulatively across Year 2 is \$804,185.71.

5. Personnel Effort

Personnel	Role	Percent Effort
Marian Betz	Principal Investigator	2.44%
Donald Nease	Co-Investigator	3.49%
Mary Elizabeth Fisher	Co-Investigator	3.36%
Jessica Buck-Atkinson	Project Manager	21.92%
Ryan Peterson	Biostatistician	5.39%
Megan Johnson	Research Assistant	28.21%
Sydney Kennedy	Qualitative Lead	20.40%
Kayla Meza	Qualitative Support	38.08%
Ian Stanley	Co-Investigator	11.76%
Makala Carrington	Graduate Research Assistant	100%

6. Protocol and Activity Status



a. Human Use Regulatory Protocols

TOTAL PROTOCOLS:

Three human subject research protocols are required to complete the Statement of Work.

PROTOCOLS:

Protocol: HRPO Log Number E02791.1a; COMIRB #21-3794

Title: Protective Environments: Military Community Engagement to Prevent Firearm-Related Violence

Target required for clinical significance: N/A; observational study engaging the use of community stakeholder input and qualitative interviews to adapt pre-existing Project Safe Guard intervention

Target approved for clinical significance: See above.

Submitted to and Approved by:

Protocol Development: 01-MAY-2021 – 21-JULY-2021

Submitted to Colorado Multiple Institutional Review Board (COMIRB): 22-JULY-2021

Approved by COMIRB: 27-JULY-2021

Reliance agreement amendment submitted to COMIRB: 20-AUG-2021

Reliance agreement amendment approved by COMIRB: 24-AUG-2021

Funding status update amendment submitted to COMIRB: 25-AUG-2021

Funding status update amendment approved by COMIRB: 28-AUG-2021

Submitted to HRPO: 09-SEPT-2021

Initial HRPO review received: 01-OCT-2021

Administrative amendment responding to HRPO review, submitted to COMIRB: 12-OCT-2021

Administrative amendment responding to HRPO review, approved by COMIRB: 15-OCT-2021

Initial HRPO review responses submitted: 19-OCT-2021

Approved by HRPO: 1-NOV-2021

Amendment with final qualitative recruitment protocols and materials, submitted to COMIRB: 18 Feb 2022

Amendment with final qualitative recruitment protocols and materials, approved by COMIRB: 4 Mar 2022

Administrative amendment updating study contact information, submitted to COMIRB: 21 Apr 2022

Administrative amendment updating study contact information, approved by COMIRB: 24 Apr 2022

Continuing review application submitted to COMIRB: 30 Jun 2022

Continuing review application approved by COMIRB: 12 Jul 2022

Continuing Review application submitted to COMIRB: 11 Jun 2023

Continuing review application approved by COMIRB: 18 Jun 2023

Continuing review application was submitted to HRPO: 10 July 2023

Continuing review application was approved by HRPO: 11 July 2023

Protocol: OHRO Log Number E02791.2a; COMIRB # 22-1432



Title: Peer-Delivered Lethal Means Safety Counseling for Firearm Injury Prevention in Active-Duty Service Members and Civilians in the US Space Force

Target required for clinical significance: 545

Target approved for clinical significance: 545

Submitted to and Approved by:

Submitted to Colorado Multiple Institutional Review Board (COMIRB): 05 Aug

2022 Approved by COMIRB: 26 Sept 2022

Approved as Exempt by COMIRB: 26 September 2022

Submitted to HRPO: 06 October 2022

Approved as Exempt by HRPO: 27 January 2023

Protocol: OHRO Log Number PENDING; COMIRB # 23-1835

Title: Promoting firearm safety and preventing injury: Building Partnerships Between Military Installations and Nearby Firearm Ranges/Retailers

Target required for clinical significance: N/A; observational study engaging DoD military installations and nearby firearm retailer partnerships, qualitative interviews intended to evaluate experiences with the partnerships and the infrastructure built for this program

approved for clinical significance: See above.

Submitted to and Approved by:

Submitted to Colorado Multiple Institutional Review Board (COMIRB): 13 September 2023, pending approval

Submitted to OHRO: Pending COMIRB approval

STATUS:

Protocol: HRPO Log Number E02791.1a; COMIRB #21-3794

Title: Protective Environments: Military Community Engagement to Prevent Firearm-Related Violence

- Human subject recruitment for Aim 1 qualitative and community translation has concluded. IRB amendment for additional qualitative recruitment pending.

Protocol: OHRO Log Number E02791.2a; COMIRB # 22-1432

Title: Peer-Delivered Lethal Means Safety Counseling for Firearm Injury Prevention in Active-Duty Service Members and Civilians in the US Space Force

- Submitted and approved as an exempt study by local IRB
- Submitted and approved as exempt by HPRO (OHRO): 27 January 2023
- No administrative, technical, or logistical challenges are anticipated at this time.

b. Use of Human Cadavers for RDT&E, Education or Training

Not Applicable

c. Animal Use Regulatory Protocols



Not Applicable



ANNUAL BUSINESS STATUS REPORT FOR

Protective Environments: Military Community Engagement to Prevent Firearm-Related Violence

MTEC-21-05-CrossCutting-032

MT210005.032

Reporting Period: 1 October 2022 – 30 September 2023

MTEC Research Project Awardee

Principal Investigator: Marian Betz, MD, MPH

Co-Investigator: Mike Anestis, PhD

Co-Investigator: Justin Baker, PhD

Co-Investigator: AnnaBelle Bryan, MS

Co-Investigator: Craig Bryan, PsyD, ABPP

Co-Investigator: Mary Fisher, MPH

Co-Investigator: Don Nease Jr., PhD

Collaborator: Kyleanne Hunter, PhD

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Biostatistician: Ryan Peterson, PhD

Research Assistant: Megan Johnson

Research Project Technical POC:

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Submitted: 25 Oct 2023



1. Current Staff

<i>Personnel</i>	<i>% of Effort on project</i>
Project Manager (Buck-Atkinson)	21.92%
Principal Investigator (Betz)	2.44%
Co-Investigator (Nease)	3.49%
Co-Investigator (Fisher)	3.36%
Co-Investigator (Stanley)	11.76%
Biostatistician (Peterson)	5.39%
Research Assistant (Johnson)	28.21%
Qualitative Lead (Kennedy)	20.40%
Qualitative Support (Meza)	38.08%
Graduate Research Assistant	100%

2. Current Expenditures

A. Cost Reimbursable Contracts: Complete only if your contract is Cost Reimbursable or Cost Plus Fixed Fee.

<i>Contract Expenditures</i>	<i>Current Annual Expenditures</i>	<i>Cumulative To Date Expenditures</i>
Labor (Personnel and Fringe)	\$417,148.15	\$559,575.20
Supplies/Materials	\$5,106.71	\$53,699.85
Travel	\$9,183.16	\$11,640.17
Equipment	\$0	\$0
Subcontractors and Consultants	\$100,564.90	\$168,149.46
Other Direct Costs	\$134,959.47	\$134,959.47
Indirect Costs	\$137,836.70	\$199,793.37
Total	\$804,799.09	\$1,004,592.46

3. Status of Milestones

MTEC Milestone Number	Milestone Description	Due Date	% Completed this Reporting Period	Cumulative % Complete
1	Project Kick Off	9/24/2021	0%	100%
2	Local IRB Approval (Aim 1 Qualitative)	10/25/2021	0%	100%
3	BCT Team Established	12/31/2021	0%	100%
4	HRPO Approval (Aim 1 Qualitative)	1/25/2022	0%	100%
5	BCT Process: 25% completed	1/25/2022	0%	100%
6	Quarterly Report 1	1/25/2022	0%	100%
7	Qualitative Study: Enrollment begins	2/28/2022	0%	100%
8	Qualitative data analysis begins	4/25/2022	0%	100%
9	Quarterly Report 2	4/25/2022	0%	100%
10	Qualitative Study: Enrollment 25% completed (n=10)	6/30/2022	0%	100%



11	BCT Process: 75% completed (estimated 6 meetings)	7/25/2022	0%	100%
12	Quarterly Report 3	7/25/2022	0%	100%
13	Local IRB approval (Aim 2 Trial)	9/30/2022	0%	100%
14	Qualitative Study: Enrollment 75% completed (n=30)	9/30/2022	0%	100%
15	Annual Report 1 and IPR presentation for MOMRP and MTEC	10/25/2022	0%	100%
16	HRPO approval (Aim 2 Trial)	10/31/2022	100%	100%
17	Qualitative Study: Enrollment 100% completed (n=40)	10/31/2022	5%	100%
18	Intervention adaptation completed	10/31/2022	45%	100%
19	Trial materials developed	11/30/2022	100%	100%
20	Trial: First cluster randomized (n= cluster; estimated n=77)	12/31/2022	100%	100%
21	Quarterly Report 4	1/25/2023	100%	100%
22	Quarterly Report 5	4/25/2023	100%	100%
23	Local IRB approval (Aim 2 qualitative interviews)	6/30/2023	100%	100%
24	Quarterly Report 6	7/25/2023	100%	100%
25	Trial: Roll-out to 50% clusters completed (n=3-4 clusters; estimated n=270)	8/31/2023	100%	100%
26	HRPO approval (Aim 2 qualitative interviews)	9/30/2023	100%	100%
27	Annual Report 2 and IPR presentation for MOMRP and MTEC	10/25/2023	50%	50%
28	Trial data cleaning and analysis begins	1/25/2024	0%	0%
29	Quarterly Report 7	1/25/2024	0%	0%
30	Trial: Roll-out to 100% clusters completed (n=7 clusters; estimated n=550 total)	3/31/2024	0%	0%
31	Participant qualitative interviews completed (n=15-20)	4/25/2024	0%	0%
32	Quarterly Report 8	4/26/2024	0%	0%
33	Primary data analysis completed	5/31/2024	0%	0%
34	Final Report, DTIC report, scientific publications, and future plan/discussions for operational adoption and use of the findings for Commands and the Services	7/25/2024	0%	0%

4. Nontraditional Defense Contractor Participation

Name of Nontraditional/Nonprofit	Planned Start Date	Actual Start Date	Reason for Deviation from Plan
University of Colorado Denver	9/30/21	9/30/21	No deviation

5. Deviation from Project Plan

Nothing to report during this quarter.

