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TITLE: Mortuary Affairs Soldiers: Early Intervention and Altering Barriers to Care for Traumatic Stress and PTSD

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Rockville, MD 20852

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14. ABSTRACT
This project was designed to implement and assess the feasibility of a unique and newly-developed intervention (TEAM: Troop Education for Army Morale: Units and Individuals Working Together). TEAM is designed to meet the specific post deployment needs of Mortuary Affairs (MA) Soldiers through individual training, active engagement in problem solving and accessing care, enhanced buddy care and spouse support. Short and longer-term outcome in MA Soldiers are assessed. Specific aims include: 1) demonstrating the feasibility of TEAM intervention for care, support and lessening barriers to care for MA Soldiers and 2) assessing the effectiveness of TEAM on disorder (e.g., PTSD, depression), distress, health risk behaviors (e.g., alcohol or tobacco use), work function, marital conflict, and barriers to health care utilization. Three cohorts (total of 75 Soldiers) have been recruited from the 54th and 111th MA companies at Ft Lee, VA. Subject recruitment continues. Data have not been analyzed.

15. SUBJECT TERMS
Mortuary Affairs Soldiers, service members, post deployment, distress, PTSD, assessment, education, training, intervention, social context, buddies, spouse

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INTRODUCTION

This project was designed to implement and assess the feasibility of a unique and newly developed intervention (TEAM: Troop Education for Army Morale: Units and Individuals Working Together). TEAM is designed to meet the specific post deployment needs of Mortuary Affairs (MA) Soldiers for early and follow-up intervention to speed recovery, return to work and limit barriers to care through individual training, active engagement in problem solving and accessing care, enhanced buddy care and spouse support. Short and longer-term outcome in MA Soldiers are assessed. Specific aims include: 1) demonstrating the feasibility of TEAM intervention for care, support and lessening barriers to care for MA Soldiers and 2) assessing the effectiveness of TEAM on disorder (e.g., PTSD, depression), distress, health risk behaviors (e.g., alcohol or tobacco use), work function, marital conflict, and barriers to health care utilization. MA Soldiers are recruited from the 54th and 111th MA companies at Ft Lee, VA. We will recruit the maximum number of available post-deployment MA Soldiers. Approximately 54 MA Soldiers will become available to recruit every six months (study approved for up to 420 total subjects). We expect approximately 44 Soldiers to enroll every 6 months with approximately half randomly assigned to the TEAM intervention and half to the non-intervention comparison group. We estimate approximately N=200 (100 from each group) will complete the training and assessments. Spouses of Soldiers in the intervention group are eligible to participate in spouse workshops. We estimate 7-8 spouses in each cohort will agree to participate. TEAM has two levels of intervention: Module I. Group Training; Module II: Social Context Building. The Module I intervention will be given shortly after return from deployment (approximately 1 month). Module II will be given at 3 months and assessments will be at 1, 2, 3, 6 and 9 months. This two-pronged approach focuses on individual education while altering the social context. Each Module has an evidence informed educational/training component and a stepped care component providing education and outreach as well as resources and interactive multimodal support.

BODY

Below is a summary of the major activities undertaken by the project team during the last year organized by the timeline in the Statement of Work (SOW).

1. Coordination planning with site/units. Members of the project remain in frequent contact with the Fort Lee Command and Mortuary Affairs units to maintain support for TEAM and plan for ongoing recruitment and intervention workshops. Institutional regulatory review has been obtained from the Uniformed Services University and Fort Detrick IRBs. Final approval has been signed-off by both institutions. Study clinicians and staff have completed human subjects training.
2. Personnel recruitment, hiring and training. The project is fully staffed and members of the project have been trained on the use of the intervention materials (e.g., intervention manual, slides, handouts) as well as means of delivering the educational content (e.g., conducting workshops, use of the phone line and email service, participant safeguards).

3. Development of short and long-term intervention and assessment. Assessments (evaluations) have been developed for all assessment periods for intervention and control groups. Prior to finalization, assessments were reviewed by a project consultant for utility and ease of understanding. Intervention materials for Soldiers in the intervention group and participating spouses have been developed. Materials include a detailed intervention training manual for trainers, Power Point slides, handouts and a dedicated website. The intervention’s educational content includes skills for care of self and others (buddy/spouse) and whenever possible is targeted to the special needs of MA Soldiers or spouses. The educational content (e.g., presentation material, handouts) is based on Psychological First Aid and addresses barriers to seeking care, managing resistance and accessing care. The website supports the workshop educational content and allows for viewing copies of workshop slides and handouts. A TEAM email address and a toll free 1-866 telephone line have been established for purposes of educational support of Soldiers in the intervention group and participating spouses.

4. Develop participant tracking system. A data base structure for data entry and organization of recruitment and tracking has been built.

5. Feasibility study and recruitment coordination. Assessment and intervention materials (e.g., intervention manual, handouts) were reviewed by a consultant prior to finalization. Pilot testing of all aspects of TEAM materials, procedures and logistics is complete. Institutional Review Board approval from the Uniformed Services University of the Health Sciences has been obtained. Fort Lee Command and Mortuary Affairs units support the TEAM program and are cooperative in arranging availability of subjects and space for conducting workshops at Fort Lee.

6. Intervention and assessments, ongoing data preparation. Recruitment of the first cohort of subjects (N=21; n=11 in intervention group, n=10 in control group) began in July 2009 and their final assessment was completed in June 2010. TEAM intervention materials, assessments, procedures and logistics were evaluated and optimized throughout cohort 1. Cohort 2 (N=31; n=16 in intervention group, 15 in control group) was recruited in December 2009 and
completion of their final survey is anticipated to occur in September 2010. Cohort 3 (N=23; n=12 in intervention group, n=11 in control group) was recruited in June 2010 and has received workshops 1 and 2. Spouse participation has been lower than anticipated. To date, 75 Soldiers and 1 spouse have participated in TEAM. Coordination with Fort Lee Command and Mortuary Affairs units is ongoing for recruitment of the next cohort of MA Soldiers returning from deployment. Assessment data collected to date have been entered into the subject tracking database. Quality assessment of the existing data is in progress.

7. **Complete subject recruitment, intervention and assessment.** Subject recruitment is ongoing at this time.

8. **Data preparation.** Data collection is ongoing at this time. Initial steps in preparation of the existing data for statistical analysis involve inputting data into SPSS and cleaning data.

9. **Preparation for project conference.** To be completed.

10. **Data analysis.** Initial frequencies have been conducted as part of cleaning the data. Frequency count of initial responses to questions regarding the helpfulness of the TEAM program have been totaled. The result of this preliminary analysis was used for poster presentations (see Appendices E-G).

11. **Final project conference.** To be completed.

12. **Preparation and delivery/distribution of final report.** To be completed.

**KEY RESEARCH ACCOMPLISHMENTS**

- Development and finalization of a multimodal educational intervention program for Soldiers returning from deployment and their spouses.

- Development of a supportive relationship with Fort Lee Command and Mortuary Affairs units for recruitment of subjects and delivery of the TEAM program.

- Recruitment of three cohorts (N=75 Soldiers) to date.

- Development of a database for tracking subjects and statistical analysis.
REPORTABLE OUTCOMES

Seven posters based on the TEAM study have been presented at professional meetings (see Appendices A-G for abstracts and mini-posters).


CONCLUSION

The study is in the recruitment, data collection and intervention phase. Three
cohorts have been recruited thus far. Data collected to date has been entered into the project database. All aspects of this project are progressing as planned.

REFERENCES

No references were cited in this Annual Report.

APPENDICES

Appendix A: Abstract and poster titled: Early Care for Psychological Trauma: Innovations in Teaching and Delivery

Appendix B: Abstract and poster titled: Early Intervention for Posttraumatic Stress Disorder in Mortuary Affairs Soldiers

Appendix C: Abstract and poster titled: Early Care for Psychological Trauma: Innovations in Teaching and Delivery

Appendix D: Abstract and poster titled: Early Intervention and Altering Barriers to Care for Traumatic Stress and PTSD

Appendix E: Abstract and poster titled: Early Intervention for Posttraumatic Stress Disorder in Mortuary Affairs Soldiers

Appendix F: Abstract and poster titled: Early Educational Intervention for Mortuary Affairs Soldiers Post Deployment: Preliminary Results

Appendix G: Abstract and poster titled: Early Educational Intervention for Mortuary Affairs Soldiers Post Deployment: Preliminary Results
Appendix A

Early Care for Psychological Trauma: Innovations in Teaching and Delivery

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Abstract

Populations exposed to traumatic events (e.g., war, disaster, terrorism) are at increased risk for posttraumatic distress and adjustment difficulties. It is critical for health care professionals and others who work with trauma-exposed populations to know and apply the current standard of early trauma care. A new educational intervention program based on evidence informed principles of Psychological First Aid (PFA) and Cognitive Behavioral Therapy (CBT) has been developed to address specific post-trauma needs. PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping through five key principles: 1) physical and psychological safety, 2) calming, 3) connectedness, 4) self-efficacy and 5) hope/optimism. CBT is an approach to altering the thoughts and beliefs that lead to negative emotions and has been shown to prevent and treat posttraumatic stress disorder when administered early after trauma exposure. The intervention program involves individual skills training, active engagement in problem solving, exploring barriers to healthcare utilization and building and integrating resources within the home (e.g., spouse support) and occupational environment (e.g., coworker support). Spouses and coworkers can be offered an equivalent intervention program to improve their ability to understand and support the needs of the trauma-exposed individual as well as to meet their own specific needs for support. Participants are trained to 1) develop self-care skills and healthy cognitions, 2) recognize when someone needs care, 3) provide early support to foster rapid recovery and adjustment and 4) recognize barriers to care and promote health care utilization when needed. The intervention is delivered through group workshops, handouts, a website and toll-free phone information line. The impact of this new educational intervention program is being assessed with a group of high risk U.S. Army Mortuary Soldiers upon their return from deployment.
Exposure to traumatic events such as war, terrorism, natural disasters, motor vehicle collisions and assault can cause considerable psychological distress, psychiatric disorders, impaired functioning and an increase in health risk behaviors (e.g., use of alcohol or tobacco). For example, rates of posttraumatic stress disorder (PTSD), depression and alcohol misuse were as high as 19%, 13% and 30%, respectively, in Soldiers returning from Iraq and Afghanistan. Similarly, rates of PTSD and depression were 22% and 13%, respectively, in disaster workers 13 months after responding to an airplane crash. The burden of disease caused by traumatic events can interfere with an individual’s ability to function in the work and home environment and affect the family. Often, individuals exposed to trauma do not seek help for their problems.

The intervention builds individual self-care skills and skills for supporting others within the individual’s unique social context. The program integrates resources within the home and work environment to enhance the natural role of spouse and buddy support. Spouses and buddies are offered an equivalent intervention program including all workshops, resources and self-care and support components. The intervention is unique in that it is based on the evidence informed principles of Psychological First Aid (PFA) and Cognitive Behavioral Therapy (CBT). The intervention is education-based and NOT mental or physical health treatment.

Currently, this intervention is being offered to U.S. Army Mortuary Affairs soldiers and their spouses at Fort Lee, VA. Shortly after return from deployment to Iraq and Afghanistan, Soldiers attend an introduction to the intervention. Workshops 1, 2 and 3 follow at 30, 60 and 90 days from return from deployment and the booster takes place at 6 months. Outcomes including rates of posttraumatic distress and disorders, impaired functioning and healthcare utilization are assessed throughout the study.

Exposure to traumatic events increases the risk of psychological distress, psychiatric disorders and health risk behaviors

A new educational intervention uses evidence informed principles of psychological first aid and cognitive-behavioral therapy as well as a stepped care model of support and a concierge-type service to address recovery from traumatic events

The intervention enhances the natural role of spouse and buddy support and addresses barriers to healthcare utilization

Interventions of this type are in critical need due to the high number of soldiers returning from Iraq and Afghanistan with psychiatric disorders and the low rate of utilizing needed mental healthcare

Principles of the educational intervention are relevant to all branches of the military, disaster workers, first responders and others exposed to high demand and risky environments

References:
Appendix B

Early Intervention for Posttraumatic Stress Disorder in Mortuary Affairs Soldiers

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David M. Benedek, M.D.  
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Abstract

U.S. Army Mortuary Affairs Soldiers (MA) returning from Iraq and Afghanistan report high rates of posttraumatic stress disorder (PTSD), psychological distress, personal and family stress, functional impairment and needing but not obtaining health care. A new educational intervention, TEAM (Troop Education for Army Morale), is designed to reduce distress and foster adaptive functioning. TEAM is based on evidence informed principles of Psychological First Aid (safety, calming, connectedness, self-efficacy, hope/optimism) delivered through workshops, handouts, a website and phone line. Soldiers and their spouses learn to use self-care skills, recognize when soldiers need care, provide support (buddy care, spouse support), identify barriers to care and promote health care utilization when needed. MA Soldiers, randomized to TEAM or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. Significant reductions in arousal, distress and functional impairment as well as increases in healthcare utilization are anticipated. Data are not yet available. Findings will increase our knowledge of PFA based early intervention and PTSD symptomology. Implications include the feasibility of early intervention with all military service members, first responders, disaster workers and others exposed to the dead.
EARLY INTERVENTION FOR POSTTRAUMATIC STRESS DISORDER IN MORTUARY AFFAIRS SOLDIERS

Quinn M. Biggs, Ph.D., M.P.H., Carol S. Fullerton, Ph.D., James McCarroll, Ph.D., M.P.H., Dave Benedek, M.D., John H. Newby, Ph.D., M.S.W., Robert J. Ursano, M.D.

U.S. Army Mortuary Affairs Soldiers (MA) returning from Iraq and Afghanistan report high rates of probable posttraumatic stress disorder (PTSD), psychological distress, personal and family stress, functional impairment and needing but not obtaining health care.

- 19.9% Probable PTSD
- 71.6% Moderate to High stress
- 57.6% Spouse or significant other experiencing moderate to high stress
- 24.6% Seven or more bad mental health days in the past month
- 27.7% In need of medical care but did not obtain help

NEW EDUCATIONAL INTERVENTION

TEAM (Troop Education for Army Morale): TEAM is a new educational intervention program to help MA Soldiers and their spouses and families reduce distress and foster adaptive coping in the initial weeks and months after return from deployment. TEAM is designed to speed recovery, decrease time to return to work and limit barriers to healthcare utilization. TEAM is currently being offered to Mortuary Affairs soldiers and their spouses at Fort Lee, VA. Components of TEAM include:

- Building individual self-care skills and skills for supporting others
- Integrating resources within the social context of home and unit to enhance the natural role of spouse and buddy support
- Education and skills training, active problem solving, engagement in accessing healthcare, and tailoring needs and self-care and support components
- Offering spouses an equivalent intervention including all workshops, resources and self-care and support components

Methods and Evaluation: MA Soldiers, randomized to the TEAM intervention or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. Probable PTSD, distress, functional impairment, healthcare utilization and utilization of the TEAM program’s resources (e.g., website) are assessed. Spouses are not assessed.

Assessment of TEAM: Outcomes for Soldiers in the intervention group are compared to the non-intervention group. Significant reductions in arousal, distress and functional impairment as well as increases in healthcare utilization are anticipated. Data are not yet available.

EVIDENCE INFORMED PRINCIPLES

Basis of the Intervention: TEAM is based on the evidence informed principles of Psychological First Aid (PFA)1-3 and Cognitive Behavioral Therapy (CBT)4. TEAM is education-based and NOT medical or physical health treatment.

Psychological First Aid: PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping by ensuring the following five principles:

- Safety
- Calming
- Connectedness
- Self/Collective Efficacy
- Hope and Optimism

Cognitive-Behavioral Therapy: CBT is an approach to altering thoughts and beliefs that lead to negative emotions. It has been shown to successfully treat and prevent PTSD when administered early after trauma exposure.

- Safety (Physical and Psychological)
- Thoughts and beliefs about an event
- Emotional response (+/- mood)
- Calming (Arousal Reduction)
- Connectedness (Giving and Receiving Support)
- Self/Collective Efficacy
- Hope and Optimism

Teamwork (Troop Education for Army Morale):

- Build individual self-care skills and skills for supporting others
- Integrate resources within the social context of home and unit to enhance the natural role of spouse and buddy support
- Educate and train on active problem solving, engagement in accessing healthcare, and tailoring needs and self-care and support components
- Offer spouses an equivalent intervention including all workshops, resources and self-care and support components

Methods of Delivery:

- Stepped collaborative care model5 (increase care as needed)
- Concordate-type service (be available when help is wanted)
- Didactic group workshops
- Educational handouts
- Referral resources
- Support through spouse and buddy
- Informational website (training materials, resources)
- Toll-free telephone information line
- Email service
- Referral resources

Training Timeline: Shortly after return from deployment, Soldiers attend an introduction to the intervention. Workshops 1, 2 and 3 follow at 30, 60 and 90 days from return from deployment and the booster takes place at 6 months. Outcomes including rates of posttraumatic distress and disorders, impaired functioning and healthcare utilization are assessed throughout the intervention.

Training Goals: TEAM focuses on the education and training of Soldiers and their spouses to:

- Increase adaptive coping in response to symptoms of stress
- Identify when an individual is in need of care
- Develop individual self-care skills and healthy cognitions
- Improve communication skills and build supportive relationships
- Provide early support to foster rapid recovery
- Address health risk behaviors (e.g., use of alcohol or tobacco)
- Promote health care seeking when needed
- Overcome barriers to healthcare utilization

SUMMARY

- Mortuary Affairs Soldiers returning from deployment have high rates risk of psychological distress and adjustment difficulties
- TEAM, a new educational intervention uses evidence informed principles of PFA and CBT therapy as well as a stepped care model of support and a concierge-type service to address recovery and adaptation
- The intervention enhances the natural role of spouse and buddy support and addresses barriers to healthcare utilization
- Interventions of this type are in critical need due to the high number of soldiers returning from Iraq and Afghanistan with psychiatric disorders and the low utilization rate of needed mental healthcare6
- Findings will increase our knowledge of PFA based early intervention and PTSD symptomology
- Principles of the TEAM intervention are relevant to other branches of the military, first responders, disaster workers and others exposed to the dead

References:

Appendix C

Early Care for Psychological Trauma: Innovations in Teaching and Delivery

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Abstract

Populations exposed to traumatic events (e.g., war, disaster, terrorism) are at increased risk for posttraumatic distress and adjustment difficulties. It is critical for health care professionals and others who work with trauma-exposed populations to know and apply the current standard of early trauma care. A new educational intervention program based on evidence informed principles of Psychological First Aid (PFA) and Cognitive Behavioral Therapy (CBT) has been developed to address specific post-trauma needs. PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping through five key principles: 1) physical and psychological safety, 2) calming, 3) connectedness, 4) self-efficacy and 5) hope/optimism. CBT is an approach to altering the thoughts and beliefs that lead to negative emotions and has been shown to prevent and treat posttraumatic stress disorder when administered early after trauma exposure. The intervention program involves individual skills training, active engagement in problem solving, exploring barriers to healthcare utilization and building and integrating resources within the home (e.g., spouse support) and occupational environment (e.g., coworker support). Spouses and coworkers can be offered an equivalent intervention program to improve their ability to understand and support the needs of the trauma-exposed individual as well as to meet their own specific needs for support. Participants are trained to 1) develop self-care skills and healthy cognitions, 2) recognize when someone needs care, 3) provide early support to foster rapid recovery and adjustment and 4) recognize barriers to care and promote health care utilization when needed. The intervention is delivered through group workshops, handouts, a website and toll-free phone information line. The impact of this new educational intervention program is being assessed with a group of high risk U.S. Army Mortuary Soldiers upon their return from deployment.
EARLY CARE FOR PSYCHOLOGICAL TRAUMA: INNOVATIONS IN TEACHING AND DELIVERY

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BACKGROUND

Exposure to traumatic events such as war, terrorism, natural disasters, motor vehicle collisions and assault can cause considerable psychological distress, psychiatric disorders, impaired functioning and an increase in health risk behaviors (e.g., use of alcohol or tobacco). For example, rates of posttraumatic stress disorder (PTSD), depression and alcohol misuse were as high as 19%, 13% and 30%, respectively, in Soldiers returning from Iraq and Afghanistan. Similarly, rates of PTSD and depression were 22% and 13%, respectively, in disaster workers 13 months after responding to an airplane crash. The burden of disease caused by traumatic events can interfere with an individual’s ability to function in the work and home environment and affect the family. Often, individuals exposed to trauma do not seek help for their problems.

METHODS OF DELIVERY

Methods of Delivery

- Stepped collaborative care model (increase care as needed)
- Informational website (training materials, resources)
- Toll-free telephone information line
- Educational handouts
- Referral resources
- Spouse and coworker support

\[\text{Workshop 1 Stress Reactions Safety} \]
\[\text{Workshop 2 Calming Connectedness} \]
\[\text{Workshop 3 Self-Efficacy Hope/Optimism} \]

TRAINING GOALS

Training Goals

The intervention focuses on the education and training of trauma exposed individuals and their spouses and coworkers to:

- Increase adaptive coping in response to symptoms of stress
- Identify when an individual is in need of care
- Develop individual self-care skills and healthy cognitions
- Improve communication skills and build supportive relationships
- Provide early support to foster rapid recovery
- Address health risk behaviors (e.g., use of alcohol or tobacco)
- Promote health care seeking when needed
- Overcome barriers to healthcare utilization

The intervention will be piloted with U.S. Army Mortuary Affairs soldiers at Fort Lee, VA and their spouses. Shortly after return from deployment, soldiers attend an introduction and are randomized to workshop or usual services (control) groups. Workshops 1, 2 and 3 follow at 30, 60 and 90 days and the booster at 180 days. Questionnaire assessments will be conducted at 30, 60, 90, 180 and 270 days. Workshop and usual services groups will be compared on outcomes including rates of posttraumatic distress and disorders, impaired functioning, healthcare utilization and utilization of program services (e.g., website, email, telephone info line).

EVIDENCE INFORMED PRINCIPLES

Psychological First Aid

PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping by ensuring the following five principles:

- Safety
- Calming
- Connectedness
- Self/Collective Efficacy
- Hope and Optimism

Cognitive-Behavioral Therapy

CBT is an approach to altering thoughts and beliefs that lead to negative emotions. It has been shown to successfully treat and prevent PTSD when administered early after trauma exposure.

References:


SUMMARY

- Exposure to traumatic events increases the risk of psychological distress, psychiatric disorders and health risk behaviors
- A new educational intervention uses evidence informed principles of psychological first aid and cognitive-behavioral therapy as well as a stepped care model of support and a concierge-type service to address recovery from traumatic events
- The intervention enhances the natural role of spouse and coworker support and addresses barriers to healthcare utilization
- Interventions of this type are in critical need due to the high number of soldiers returning from Iraq and Afghanistan with psychiatric disorders and the low rate of utilizing needed mental healthcare
- Principles of the educational intervention are relevant to all branches of the military, disaster workers, first responders and others exposed to high demand and risky environments
Appendix D

Mortuary Affairs Soldiers: Early Intervention and Altering Barriers to Care for Traumatic Stress and PTSD

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Abstract

Background and Objectives: U.S. Army Mortuary Affairs Soldiers (MA) returning from Iraq and Afghanistan have substantial rates of Posttraumatic Stress Disorder (PTSD), depression, psychological distress and health risk behaviors (e.g., alcohol or tobacco use). Exposure to death and combat increases the risk for posttraumatic distress and adjustment difficulties. After deployment, MA Soldiers report high rates of personal and family stress, functional impairment and needing but not obtaining health care. Support from family, co-workers and supervisors has been found to be beneficial in the weeks and months post-deployment. A newly developed educational intervention, TEAM (Troop Education for Army Morale), is designed to address specific post-deployment needs of MA soldiers. TEAM involves individual skills training, active engagement in problem solving, exploring barriers to healthcare utilization and building and integrating resources within the unit (e.g., buddy care) and home (e.g., spouse support). TEAM is based on the evidence informed principles of Psychological First Aid (PFA) and Cognitive Behavioral Therapy (CBT). PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping through key principles: 1) physical and psychological safety, 2) calming, 3) connectedness, 4) self-efficacy and 5) hope/optimism. CBT is an approach to altering the thoughts and beliefs that lead to negative emotions and can prevent and treat PTSD when administered early after trauma exposure. Spouses of soldiers participating in TEAM are offered an equivalent intervention tailored to the specific needs of spouses. Soldiers and spouses are trained to 1) develop self-care skills and healthy cognitions, 2) recognize when a soldier needs care, 3) provide early support to foster rapid recovery and adjustment and 4) recognize barriers to care and promote health care utilization when needed. The intervention is delivered through group workshops, handouts, a website and toll-free phone information line.

Methods: TEAM is a longitudinal, randomized controlled trial. MA Soldiers are recruited from the 54th and 111th MA companies at Ft Lee, VA (estimated N=480) within 2 weeks of return from deployment. Questionnaire assessments are conducted at 1, 2, 3, 6, and...
9 months post deployment. TEAM participants are compared to MA soldiers not receiving the TEAM intervention. Study goals include demonstrating the feasibility of TEAM for care and support of MA soldiers. Primary outcomes include assessing psychiatric disorder (e.g., PTSD, depression), psychological distress, health risk behaviors, quality of life, work function, marital conflict and barriers to health care utilization.

**Results/Conclusions:** Not yet available.

**Impact Statement:** This study has implications for development, assessment and feasibility of early intervention with MA soldiers post-deployment. Our findings will increase our knowledge of resilience and the contribution of soldier education and the environment (i.e., spouse and buddy care) to recovery and adjustment post-deployment. Our study has broader implications for intervention with first responders and other disaster workers exposed to the dead. Findings from this study and principles of the TEAM intervention are relevant to all branches of the military and the community that must sustain first responders in high stress environments including deployments and disasters.
MORTUARY AFFAIRS SOLDIERS: EARLY INTERVENTION AND ALTERING BARRIERS TO CARE FOR TRAUMATIC STRESS AND PTSD


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BACKGROUND

U.S. Army Mortuary Affairs Soldiers (MA) returning from Iraq and Afghanistan have substantial rates of posttraumatic stress disorder (PTSD), depression, psychological distress, and health risk behaviors (e.g., alcohol or tobacco use). Exposure to death and combat increases the risk for posttraumatic distress and adjustment difficulties. After deployment, MA Soldiers report high rates of personal and family stress, functional impairment and need but not obtaining health care. Support from family, co-workers and supervisors has been found to be beneficial after deployment.

NEW EDUCATIONAL INTERVENTION

TEAM (Troop Education for Army Morale): TEAM is a new educational intervention program to help MA Soldiers and their spouses and families reduce distress and foster adaptive coping in the initial weeks and months after deployment. TEAM is designed to speed recovery, decrease time to return to work and limit barriers to healthcare utilization. TEAM components include:

- Building individual self-care skills and skills for supporting others
- Integrating resources within the social context of home and unit to enhance the natural role of spouse and buddy support
- Education and skills training, active problem solving, engagement in accessing healthcare, and tailoring needs and resources
- Offering spouses an equivalent intervention including all workshops, resources and self-care and support components

Methods and Assessment: TEAM is currently being offered to MA Soldiers (estimated N=480) and their spouses at Fort Lee, VA. MA Soldiers, randomized to the TEAM intervention or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. Primary outcomes include assessing psychiatric disorder (e.g., PTSD, depression), psychological distress, health risk behaviors, quality of life, work function, marital conflict and barriers to healthcare utilization. Participants’ use of the TEAM program’s resources (e.g., website, phone line) are also assessed. Spouses are not assessed.

Evaluation of the TEAM program: Outcomes for Soldiers in the intervention group are compared to the non-intervention group. Study goals include demonstrating the feasibility of TEAM for care and support of MA Soldiers. Significant reductions in arousal, distress and functional impairment as well as increases in healthcare utilization are anticipated. Data are not yet available.

EVIDENCE INFORMED PRINCIPLES

Basis of the Intervention: TEAM is based on the evidence informed principles of Psychological First Aid (PFA)1,2 and Cognitive Behavioral Therapy (CBT)3. TEAM is education-based and NOT mental or physical health treatment.

Psychological First Aid (PFA):

PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping by ensuring the following five principles:

- Safety
- Calming
- Connectedness
- Self/Collective Efficacy
- Hope and Optimism

Cognitive-Behavioral Therapy (CBT):

CBT is an approach to altering thoughts and beliefs that lead to negative emotions. It has been shown to successfully treat and prevent PTSD when administered early after trauma exposure.

Principles of PFA

- Safety (Physical and Psychological)
- Calming (Arousal Reduction)
- Connectedness (Giving and Receiving Support)
- Self/Collective Efficacy
- Hope and Optimism

Thoughts and beliefs about an event

Emotional response (+/- mood)

Methods of Delivery

- Stepped collaborative care model4 (increase care as needed)
- Concierge-type service (be available when help is wanted)
- Didactic group workshops
- Educational handouts
- Address specific concerns in workshops via index cards

METHODS OF DELIVERY

- Informational website (training materials, resources)
- Toll-free telephone information line
- Email service
- Referral resources
- Support through spouse and buddy

TRAINING GOALS

Training Goals: TEAM focuses on the education and training of Soldiers and their spouses to:

- Increase adaptive coping in response to symptoms of stress
- Identify when an individual is in need of care
- Develop individual self-care skills and healthy cognitions
- Improve communication skills and build supportive relationships
- Provide early support to foster rapid recovery
- Address health risk behaviors (e.g., use of alcohol or tobacco)
- Promote health care seeking when needed
- Overcome barriers to healthcare utilization

SUMMARY AND IMPACT

- Mortuary Affairs Soldiers returning from deployment have high rates risk of psychological distress and adjustment difficulties
- TEAM, a new educational intervention, uses evidence informed principles of PFA and CBT therapy as well as a stepped care model of support and a concierge-type service to address recovery and adaptation
- The intervention enhances the natural role of spouse and buddy support and addresses barriers to healthcare utilization
- Interventions of this type are in critical need due to the high number of soldiers returning from Iraq and Afghanistan with psychiatric disorders and the low utilization rate of needed mental health care5
- Findings will increase our knowledge of PFA-based early intervention and PTSD symptomology
- Principles of the TEAM intervention are relevant to other branches of the military, first responders, disaster workers and others exposed to the dead

References:


Funded by U.S. Army Medical Research & Materiel Command. Congressionally Directed Medical Research Program Award W81XWH-08-2-0180
Appendix E

Early Intervention for Posttraumatic Stress Disorder in Mortuary Affairs Soldiers

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Carol S. Fullerton, Ph.D.  
James E. McCarroll, Ph.D., M.P.H.  
David M. Benedek, M.D.  
John Newby, Ph.D., M.S.W.  
Robert J. Ursano, M.D.

Abstract

U.S. Army Mortuary Affairs Soldiers (MA) returning from Iraq and Afghanistan report high rates of posttraumatic stress disorder (PTSD), psychological distress, personal and family stress, functional impairment and needing but not obtaining health care. A new educational intervention, TEAM (Troop Education for Army Morale), is designed to reduce distress and foster adaptive functioning. TEAM is based on evidence informed principles of Psychological First Aid (safety, calming, connectedness, self-efficacy, hope/optimism) delivered through workshops, handouts, a website and phone line. Soldiers and their spouses learn to use self-care skills, recognize when soldiers need care, provide support (buddy care, spouse support), identify barriers to care and promote health care utilization when needed. MA Soldiers, randomized to TEAM or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. We present preliminary data on the impact of TEAM to specific PTSD criteria, work function and health care utilization. Significant reductions in arousal, distress and functional impairment are anticipated. Findings will increase our knowledge of PFA based early intervention and PTSD symptomology. Implications include the feasibility of early intervention with all military service members, first responders, disaster workers and others exposed to the dead.
EARLY INTERVENTION FOR POSTTRAUMATIC STRESS DISORDER IN MORTUARY AFFAIRS SOLDIERS

Quinn M. Biggs, Ph.D., M.P.H., Carol S. Fullerton, Ph.D., James McCarroll, Ph.D., M.P.H., David M. Benedek, M.D., John H. Newby, Ph.D., M.S.W., Robert J. Ursano, M.D.**

Center for the Study of Traumatic Stress, Department of Psychiatry, Uniformed Services University of the Health Sciences, Bethesda, MD

BACKGROUND

**NEW EDUCATIONAL INTERVENTION**

TEAM (Troop Education for Army Morale): TEAM is a new education and skills training intervention to help MA Soldiers and their spouses and families reduce distress and foster adaptive coping in the initial weeks and months after deployment. TEAM training includes building skills for self-care and support of others (e.g., buddy care), active problem solving, engagement in accessing healthcare, and tailoring needs and resources. TEAM integrates resources in the social context of home and unit to enhance the natural role of spouse and buddy support (i.e., spouses are offered an equivalent intervention and all training support).

**Methods and Assessment:** TEAM is currently being offered to MA Soldiers (estimated N=480) and their spouses at Fort Lee, VA. MA Soldiers, randomized to the TEAM intervention or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. Primary outcomes include assessing psychiatric disorder (e.g., PTSD, depression), psychological distress, health risk behaviors, quality of life, work function, marital conflict and barriers to healthcare utilization. Participants’ use of the TEAM program’s resources (e.g., website, phone line) are also assessed. Spouses are not assessed.

**Goals:** The training of Soldiers and spouses to:
- Develop self-care skills and healthy cognitions
- Increase adaptive coping in response to stress
- Identify when an individual is in need of care
- Provide early support to foster rapid recovery
- Build supportive relationships
- Improve communication skills
- Promote health care seeking when needed
- Overcome barriers to healthcare utilization
- Address health risk behaviors (e.g., alcohol use)

**EVIDENCE INFORMED PRINCIPLES**

**Basis of the Intervention:** TEAM is based on the evidence informed principles of Psychological First Aid (PFA)1-3 and Cognitive Behavioral Therapy (CBT). TEAM is education-based and NOT mental or physical health treatment.

**Psychological First Aid:**

PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping by ensuring the following five principles:
- Safety
- Calming
- Connectedness
- Self/Collective Efficacy
- Hope and Optimism

**Cognitive-Behavioral Therapy:**

CBT is an approach to altering thoughts and beliefs that lead to negative emotions. It has been shown to successfully treat and prevent PTSD when administered early after trauma exposure.

**Principles of PFA**

- Safety (Giving and Receiving Support)
- Connectedness
- Calming (Arousal Reduction)
- Emotional response (+/- mood)
- Connectedness
- Hope and Optimism

**Thoughts and beliefs about an event**

**Hope and Optimism**

**Principles of PFA**

- Safety (Physical and Psychological)
- Connectedness
- Calming (Arousal Reduction)
- Emotional response (+/- mood)
- Connectedness
- Hope and Optimism

**SUMMARY AND IMPACT**

- Mortuary Affairs Soldiers returning from deployment have high rates of psychological distress and adjustment difficulties
- TEAM, a new educational intervention, uses evidence informed principles of PFA and CBT therapy as well as a stepped care model of support and a concierge-type service to address recovery and post-deployment adaptation
- The intervention enhances the natural role of spouse and buddy support and addresses barriers to healthcare utilization to foster short- and long-term adaptive functioning and coping
- Interventions of this type are in critical need due to the high number of soldiers returning from Iraq and Afghanistan with psychiatric disorders and the low utilization rate of needed mental health care
- Findings will increase our knowledge of PFA-based early intervention and PTSD symptomology
- Principles of the TEAM intervention are relevant to other branches of the military, first responders, disaster workers and others exposed to the dead

**References:**

7 Funded by U.S. Army Medical Research & Materiel Command. Congressionally Directed Medical Research Program Award W81XWH-08-2-0180.

**PRELIMINARY RESULTS**

Assessments: All Soldiers reported that “Overall, the TEAM training was helpful” (N=11). Talking with others (fellow Soldiers), learning about stress and coping, relaxation training, and the educational handouts were among the most helpful components.

**How much has the TEAM training helped you in…**

- …recognizing problems re-adjusting post-deployment
- …talking with people about concerns and problems
- …feeling safe [Safety]
- …using relaxation techniques [Calming]
- …connecting with others [Connectedness]

**Observations:** Soldiers show interest in participating in TEAM (e.g., a Soldier came in to participate in TEAM during his leave; another requested to continue in TEAM after her separation from the Army). Anecdotal feedback has been positive (i.e., “The [calming exercise] helped me and my family by reducing my anger”). Command at Fort Lee has been very supportive of TEAM.

**METHODS OF DELIVERY:**

TEAM, a new educational intervention, uses evidence informed principles of PFA and CBT therapy as well as a stepped care model of support and a concierge-type service to address recovery and post-deployment adaptation.

**TEAM DELIVERY AND TIMELINE:**

- **Methods of Delivery:**
  - Stepped collaborative care model (increase care as needed)
  - Informational website (training materials, resources)
  - Toll-free phone information line and email service
  - Referral resources
  - Support through spouse and buddy

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- **Background:**

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Appendix F

Early Educational Intervention for Mortuary Affairs Soldiers Post Deployment: Preliminary Results

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U.S. Army Mortuary Affairs Soldiers (MA) returning from Iraq and Afghanistan report high rates of posttraumatic stress disorder (PTSD), psychological distress, personal and family stress, functional impairment and needing but not obtaining health care. A new educational intervention, TEAM (Troop Education for Army Morale), is designed to reduce distress and foster adaptive functioning. TEAM is based on evidence informed principles of Psychological First Aid (safety, calming, connectedness, self-efficacy, hope/optimism) delivered through workshops, handouts, a website and phone line. Soldiers and their spouses learn to use self-care skills, recognize when soldiers need care, provide support (buddy care, spouse support), identify obstacles to seeking care and promote health care utilization when needed. MA Soldiers, randomized to TEAM or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. We present preliminary data on TEAM’s impact on feelings of safety, use of calming techniques, and Soldiers ability to recognize problems and seek help. Findings from this study will increase our knowledge of PFA based early intervention. Implications include the feasibility of early intervention with all military service members, first responders, disaster workers and others exposed to the dead.
U.S. Army Mortuary Affairs Soldiers (MA) returning from Iraq and Afghanistan have substantial rates of posttraumatic stress disorder (PTSD), depression, psychological distress, and health risk behaviors (e.g., alcohol or tobacco use). Exposure to death and combat increases the risk for posttraumatic distress and adjustment difficulties. After deployment, MA Soldiers report high rates of personal and family stress, functional impairment and need but not obtaining health care. Support from family, co-workers and supervisors has been found to be beneficial after deployment.

TEAM (Troop Education for Army Morale): TEAM is a new education and skills training intervention to help MA Soldiers and their spouses and families reduce distress and foster adaptive coping in the initial weeks and months after deployment. TEAM training includes building skills for self-care and support of others (e.g., buddy care), active problem solving, engagement in accessing healthcare, and tailoring needs and resources. TEAM integrates resources in the social context of home and unit to enhance the natural role of spouse and buddy support (i.e., spouses are offered an equivalent intervention and all training support).

Methods and Assessment: TEAM is currently being offered to MA Soldiers (estimated N=480) and their spouses at Fort Lee, VA. MA Soldiers, randomized to the TEAM intervention or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. Primary outcomes include assessing psychiatric disorder (e.g., PTSD, depression), psychological distress, health risk behaviors, quality of life, work function, marital conflict and barriers to healthcare utilization. Participants’ use of the TEAM program’s resources (e.g., website, phone line) are also assessed. Spouses are not assessed.

Goals: The training of Soldiers and spouses to:
- Develop self-care skills and healthy cognitions
- Increase adaptive coping in response to stress
- Identify when an individual is in need of care
- Provide early support to foster rapid recovery
- Build supportive relationships
- Improve communication skills
- Promote health care seeking when needed
- Overcome barriers to healthcare utilization
- Address health risk behaviors (e.g., alcohol use)
- Identify when an individual is in need of care
- Provide early support to foster rapid recovery
- Build supportive relationships
- Improve communication skills
- Promote health care seeking when needed
- Overcome barriers to healthcare utilization
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EVIDENCE INFORMED PRINCIPLES

Basis of the Intervention: TEAM is based on the evidence informed principles of Psychological First Aid (PFA) and Cognitive Behavioral Therapy (CBT). TEAM is education-based and NOT mental or physical health treatment.

Psychological First Aid: PFA is designed to reduce the initial distress caused by traumatic events and to foster short- and long-term adaptive functioning and coping by ensuring the following five principles:
- Safety
- Calming
- Connectedness
- Self/Collective Efficacy
- Hope and Optimism

Cognitive-Behavioral Therapy: CBT is an approach to altering thoughts and beliefs that lead to negative emotions. It has been shown to successfully treat and prevent PTSD when administered early after trauma exposure.

Principles of PFA

- Connectedness (Giving and Receiving Support)
- Safety (Physical and Psychological)
- Calming (Arousal Reduction)
- Hope and Optimism
- Self- and Collective-Efficacy

Hope and Optimism


development of self-efficacy and related beliefs about situations.

Principles of the TEAM intervention are relevant to other branches of the military, first responders, disaster workers and others exposed to the dead.

**Research Team included:** John H. Newby, Ph.D., M.S.W., David M. Benedek, M.D., Natalie T. Kodsy, M.A., and Stephanie N. Riley, B.S.

References:

SUMMARY AND IMPACT

- Mortuary Affairs Soldiers returning from deployment have high rates of psychological distress and adjustment difficulties.
- TEAM, a new educational intervention, uses evidence informed principles of PFA and CBT therapy as well as a stepped care model of support and a concierge-type service to address recovery and post-deployment adaptation.
- The intervention enhances the natural role of spouse and buddy support and addresses barriers to healthcare utilization.
- Interventions of this type are critical need due to the high number of soldiers returning from Iraq and Afghanistan with psychiatric disorders and the low utilization rate of needed mental health care.
- Findings will increase our knowledge of PFA-based early intervention and PTSD symptomology.
- Principles of the TEAM intervention are relevant to other branches of the military, first responders, disaster workers and others exposed to the dead.

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References:

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Appendix G

Early educational intervention for Mortuary Affairs Soldiers post deployment: preliminary results

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EARLY EDUCATIONAL INTERVENTION FOR MORTUARY AFFAIRS SOLDIERS
POST DEPLOYMENT: PRELIMINARY RESULTS
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METHODS AND ASSESSMENT

TEAM is currently being offered to MA Soldiers (estimated N=480) and their spouses at Fort Lee, VA. MA Soldiers, randomized to the TEAM intervention or no intervention, complete questionnaires upon return from deployment and at 1, 2, 3, 6, and 9 months. Primary outcomes include assessing psychiatric disorder (e.g., PTSD, depression), psychological distress, health risk behaviors, quality of life, work function, marital conflict and barriers to healthcare utilization. Participants’ use of the TEAM program’s resources (e.g., website, phone line) are also assessed. Spouses are not assessed.

GOALS: The training of Soldiers and spouses to:
- Develop self-care skills and healthy cognitions
- Increase adaptive coping in response to stress
- Identify when an individual is in need of care
- Provide early support to foster rapid recovery

TEAM is education-based and NOT mental or physical health treatment.

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Cognitive-Behavioral Therapy: CBT is an approach to altering thoughts and beliefs that lead to negative emotions. It has been shown to successfully treat and prevent PTSD when administered early after trauma exposure.

Safety

Connectedness

Self- and Collective-Efficacy

Hope and Optimism

Basis of the Intervention: TEAM is based on the evidence informed principles of Psychological First Aid (PFA) and Cognitive Behavioral Therapy (CBT). TEAM is education-based and NOT mental or physical health treatment.

EVIDENCE INFORMED PRINCIPLES

Principles of PFA

Hope and Optimism

Safety (Physical and Psychological)

Thoughts and beliefs about an event

Emotional response (+/ mood)

Self- and Collective-Efficacy

Principles of PFA

Connectedness (Giving and Receiving Support)

Steps of TEAM

MORTUARY AFFAIRS SOLDIERS returning from deployment have high rates of psychological distress and adjustment difficulties.

TEAM, a new educational intervention, uses evidence-informed principles of PFA and CBT therapy as well as a stepped care model of support and a concierge-type service to address recovery and post-deployment adaptation.

The intervention enhances the natural role of spouse and buddy support and addresses barriers to healthcare utilization.

Interventions of this type are critical need due to the high number of soldiers returning from Iraq and Afghanistan with psychiatric disorders and the low utilization rate of needed mental health care.

Findings will increase our knowledge of PFA-based early intervention and PTSD symptomology.

PRINCIPLES OF THE TEAM intervention are relevant to other branches of the military, first responders, disaster workers and others exposed to the dead.

** A randomized effectiveness trial of stepped collaborative care for acutely injured trauma survivors. Archives of General Psychiatry, 61, 486-496.

References:
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PRELIMINARY RESULTS

How much has the TEAM training helped you in…

Recognizing problems re-adjusting post-deployment...recognizing problems re-adjusting post-deployment

Talking with people about concern and problems...feeling safe [Safety]

Using relaxation techniques [Calming]

Connecting with others [Connectedness]

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SUPPORTING DATA

None supplied.