Mental Resilience Training: The Role of Individuals, Teams and Leaders

Amy Adler, Ph.D. Center for Military Psychiatry and Neuroscience Walter Reed Army Institute of Research



Prepared for Militær Mentaltræning

Copenhagen December 2024



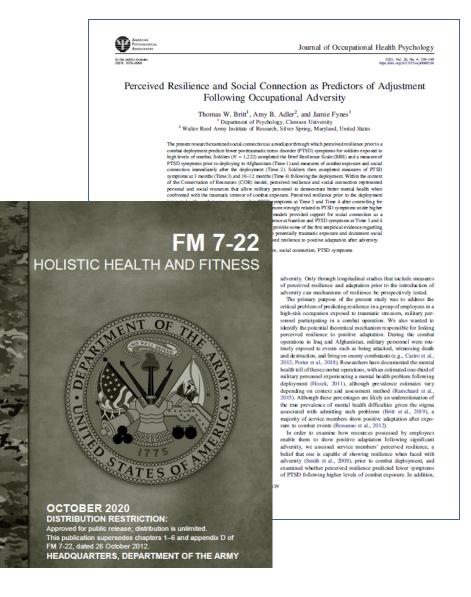
Disclaimer

Material has been reviewed by the Walter Reed Army Institute of Research. There is no objection to its presentation and/or publication. The opinions or assertions contained herein are the private views of the author, and are not to be construed as official, or as reflecting true views of the Department of the Army or the Department of Defense. The investigators have adhered to the policies for protection of human subjects as prescribed in AR 70–25

Resilience Fundamentals

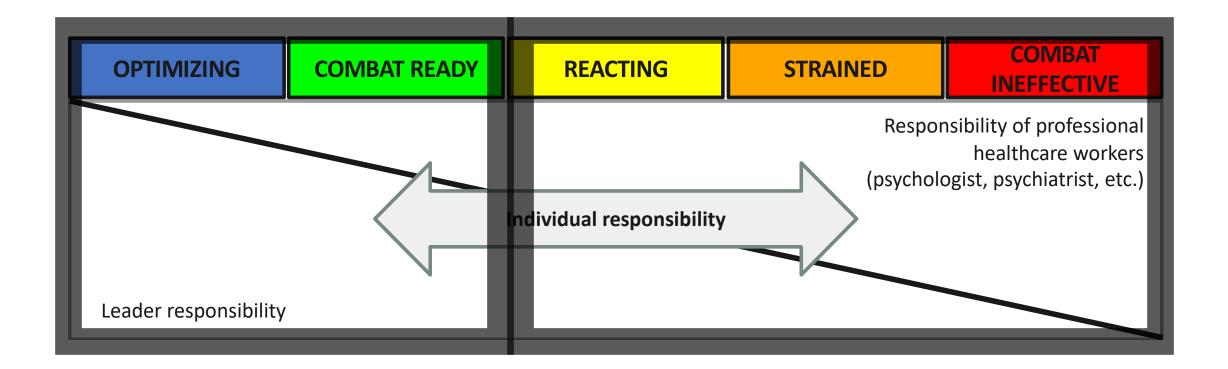
- Resilience is
 - Something that can be strengthened
 - Not a replacement for addressing structural problems

FM 7-22. The ability to face and cope with adversity, adapt to change, recover, learn, and grow from setbacks.





Mental Health Continuum



Adapted from Canadian Armed Forces, US Marines, and Danish Defense Force

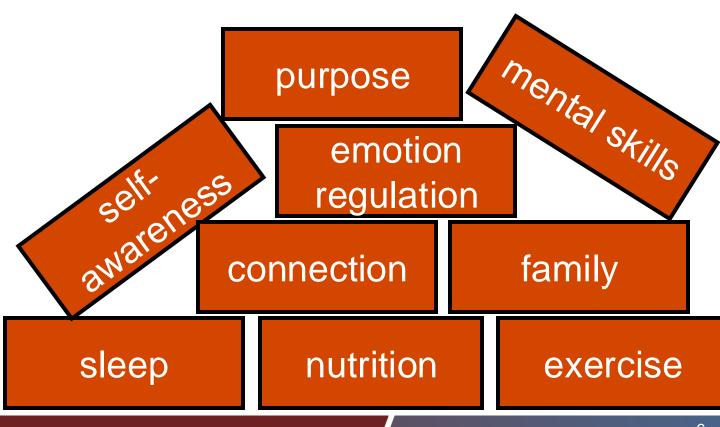


	Optimize	Maintain	Counteract	Seel	c help
Self care	mindsetexercise, andPractice «visualization»Control the dDevelop «routines»Use social suMaintain relationships and build social support networksMaintain per with «5,5,5» 	Maintain healthy eating, exercise, and sleep Control the controllables Use social support Maintain perspective with «5,5,5» Engage in «self-talk» Conduct «Personal AARs»	Reach out to others Practice «grounding» «Control the controllables» Use «worry postponement» Practice «deliberate breathing» Identify «What's Important Now» «Reframe» challenges Moderate alcohol use	Seek social support! Contact health personnel Talk to your leadership about your situation Be kind to yourself Use «Distraction by Design»	Seek immediate assistance from health personnel or other available resource Expect recovery
Buddy care	Encourage «goal setting» Build strong cohesion Cultivate optimism Practice «active appreciation» Establish «cue words» Leverage «emotional contagion» «Respond well» to good news	Listen actively Normalize Be inclusive Encourage use of mental skills Engage in «buddy talk» Foster «group mind» «Recognize contributions»	Listen actively and acknowledge stress Prompt mental skills Challenge negative thinking and use problem solving Lighten the mood Encourage moderation in alcohol use «Read nonverbal signals»	Listen actively and acknowledge stress Coach mental skills Have a «check-in» conversation Confer with support systems Provide practical support	Perform iCover Escort the person to care Help unit stabilize in aftermath of trauma Reach out to resources Encourage purposeful action in team

Buddy care

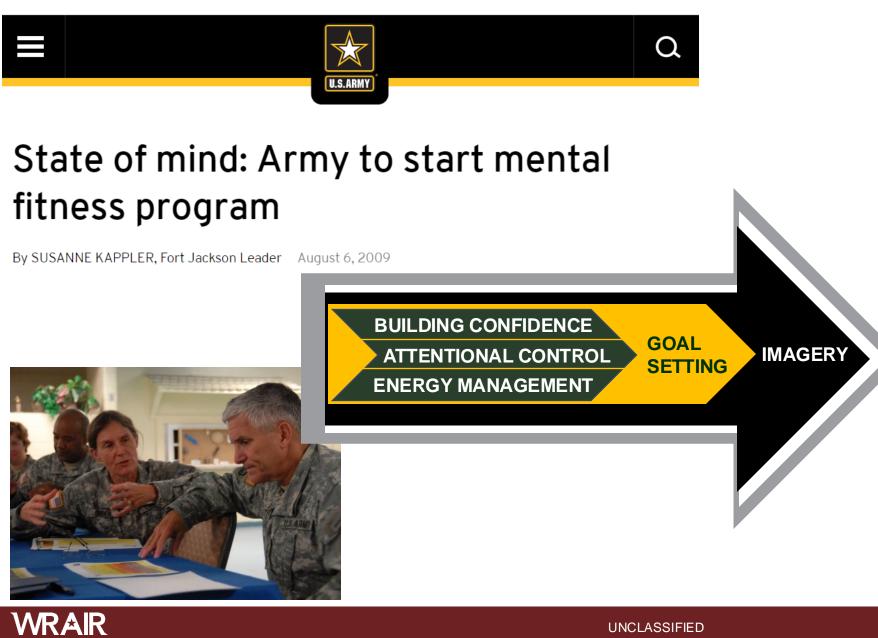
Sources of Resilience

- Individuals
- Teams
- Leaders





Mental Skills

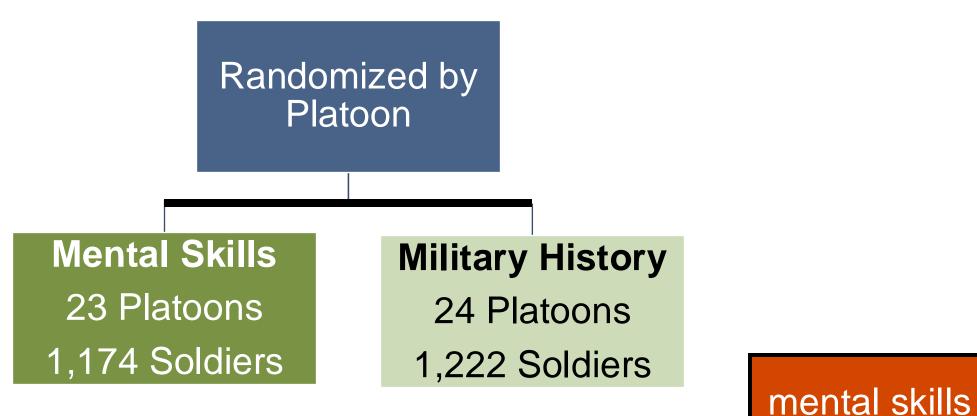


	asic Combat Training Soldiers: idomized Trial		
Amy B. Adler and Paul D. Bliese Walter Reed Army Institute of Research, Silver Spring, Maryland	Michael A. Pickering and Jon Hammermeister Eastern Washington University		
Jason Williams Research Triangle Institute, Research Triangle, North Carolina	Coreen Harada Army Resiliency Directorate, Crystal City, Virginia		
Louis Csoka Apex Performance, Inc., Charlotte, North Carolina	Bernie Holliday and Carl Ohlson United States Military Academy		
research in a variety of organizational settings h assessed cognitive skills training using figzrous, lot present study examined cognitive skills training in (N = 2.432 soldiers) in basic combat training in comparison condition (military history). Surveys 10-week course. Multilevel mulsed-fiets: models condition reported grater use of a range of cogniti the control condition. Soldiers in the mental skills course events, rappelling, physical fitness, and initis generally moderated by gender and previous exper- rigor of the design, the findings clearly contribut evidence that cognitive training skills can enhance	ter skills, self-efficacy, and performance. Although as demonstrated training efficacy. few studies have guindinal, randomized trails with active controls. The a high-risk occupation by randomizing 48 platoons or either (a) metal skills training or (b) an active were conducted at baseline and 3 times across the revealed that soldiers in the mental skills training we skills and increased confidence relative to those in training condition also performed better on obstacle al weapons qualification scores, although effects were ence. Overall, effects were small-however, given the is to the broader literature by providing supporting experiments and a spectra settings, nee to determine the need for targeting such training efformance, basic combat training, soldiers		
Vumerous studies have examined how training can benefit employee outcomes, including skills acquisition (e.g., Taylor, Russ-Eft, & Chan, 2005), self-efficacy (e.g., Frayne & Geringer, 2000), and job performance (e.g., Arthur, Bennett, Edens, & Bell,	2003). Although training content may differ across organizations, training that emphasizes cognitive skills has been identified as particularly effective (Aguinis & Kraiger, 2009). Conceptualized broadly, cognitive skills training encompasses self-instructional		
Amy B. Adler and Paul D. Bliese. Center for Military Psychiatry and Neuroscience. Walter Reed Amy Institute of Research, Silver Spring, Mary- Ling, Michael A, Pckering and Me Hummermeister. College of Health Sci- ence and Public Health, Eathern Washington University; Jason Williams, Research Triangle Institute, Research Triangle, North Carolina; Coreen Harada. Amy Residiency Directoriade, Crystal City, Vigriair, Louis Coska, Apex Performance, Inc., Chutole, North Carolina; Bernis Holitaty, Amry Conter for Enhanced Performance, United States Military Academy; Carl Okion, Center for Enhanced Performance, United States Military Academy; Carl Paul D. Bliess is now at the Dark Moore School of Business, University of South Carolina. Bernie Holiday is now with the Pittsburgh Prentos, Pittburgh, Pennsylvania. Carl Ohsones ins own an independent consultant and adjunct ficulty member at the College of Education, The Pennsylvania State University. The Army Center for Enhanced Performance, the original cooponsor of this research, has been restructured and is now part of the Army	Resiliency Directorate. We thank study associates Antonio (Tony) Best, Ryan McCausland, William (Tony) Barnes II, Julie Merrill, Robert Kiccko, Rachel Eckford, Victor Martinez, Angela Salvi, Steven Terry, and Joe Wonble; Tom Powers of the University of South Carolian Sumiter, Major General Bradley May, Sonya Cable, and Stephanie Muraca from the Training and Doctine Command, Bargader General (Retired) Rhorad Cornam; the military history instructors, performance enhancement specialists, and Basic Combat Training soldiers; Army Community Services; and Robert Bray, Marion (Becky) Lane, and the Research Triangle Institute. The views expressed in this article are those of the authors and do not necessarily represent the official policy or position of the U.S. Army Medical Command or the U.S. Army. Correspondence concerning this article should be addressed to Amy B. Adler, Center for Military Psychiatry and Neuroscience, Walter Red Army Institute of Research, 503 Robert Grant Arenue, Silver Spring, MD 200910. E-mail: amy.badler.civ@mail.mil		

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Study Design

- 8 hours of training
- 20-40 minute sessions over 10 weeks

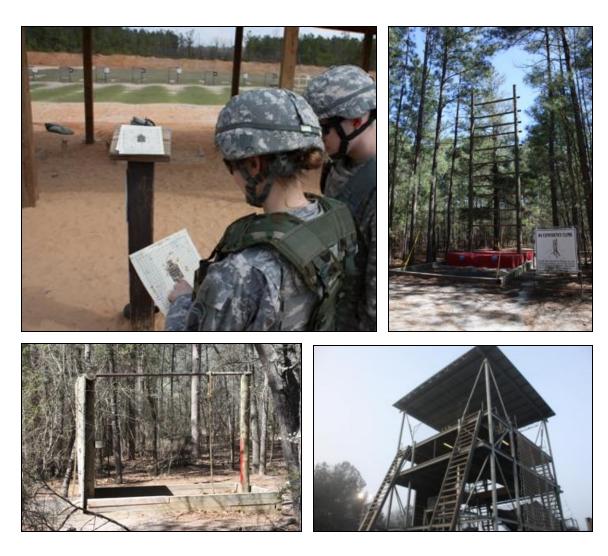


Source: Adler et al. (2015) J of Applied Psychology



Results

- Mental Skills condition better on
 - Performance
 - Basic Rifle Marksmanship Grouping
 - Slide to Victory
 - Wall Hanger
 - Physical Fitness Diagnostic Scores
 - Cognitive skills
- No difference on
 - Victory Tower
 - Confidence Climb
 - Pre-NBC Anxiety



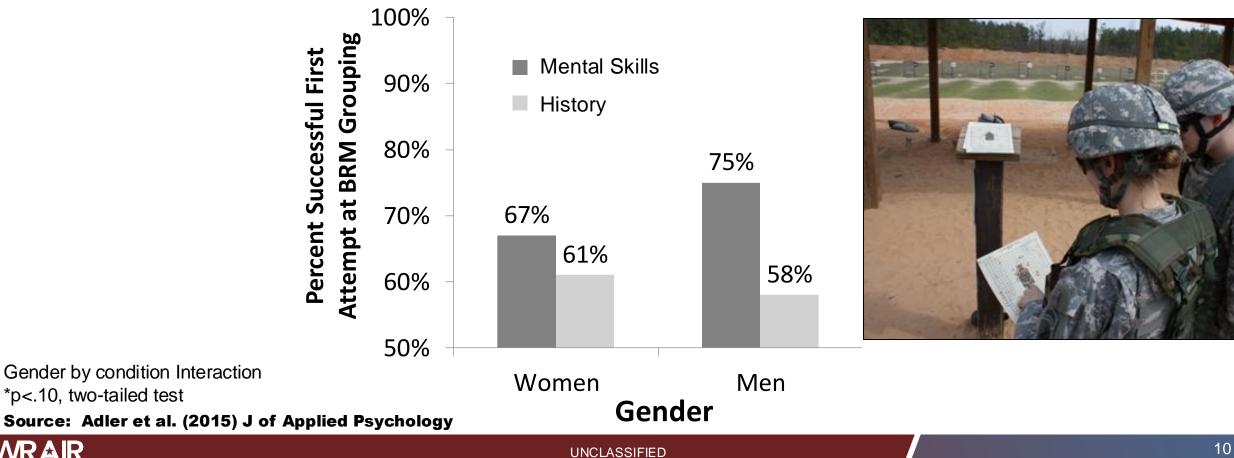
Source: Adler et al. (2015) J of Applied Psychology

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Basic Rifle Marksmanship

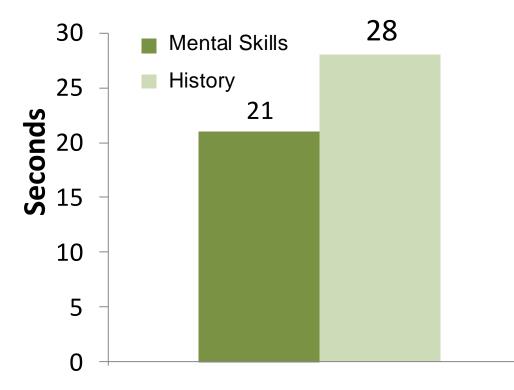
 The Mental Skills condition "grouped" more successfully than Military History in a gender by condition interaction

WRAIR



Slide to Victory

 Compared to the Military History condition, the Mental Skills condition was 25% faster walking along a high beam*





*p<.01 Source: Adler et al. (2015) J of Applied Psychology

Lessons Learned

- Randomized trials can identify effective interventions
- Training uptake needs to consider timing, amount, source
- Opportunities to reinforce training are critical
 - Chunked information
 - In context
 - Reinforced by battle buddies and leaders
- Optimal trainers
- Decision point regarding when to conduct an RCT vs. other form of assessment



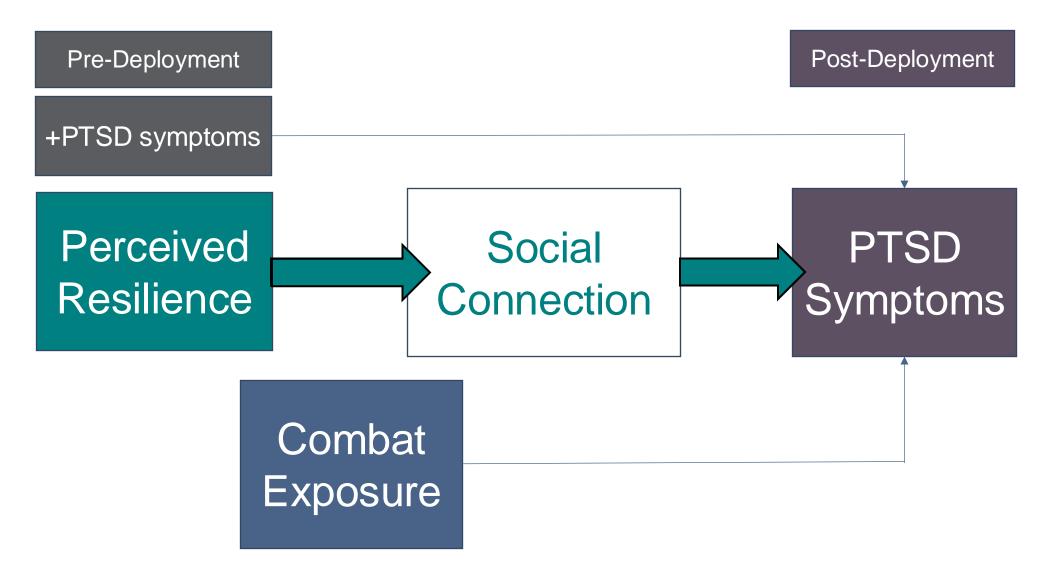
Emotion Regulation







Resilience Predicts Adjustment Under Stress

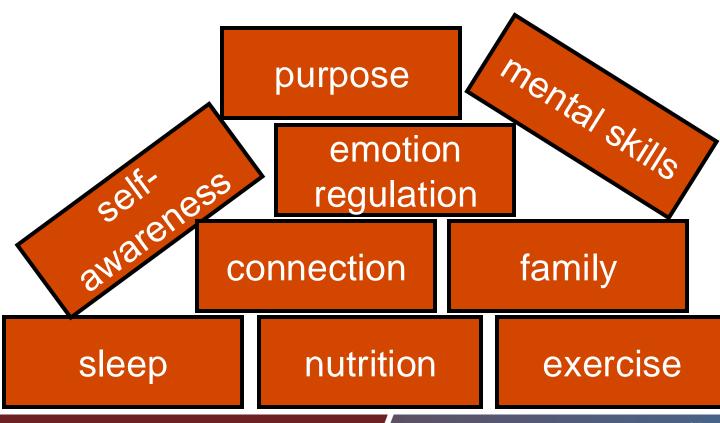


Source: Britt, Adler & Fynes (2021) J of Occupational Health Psychology



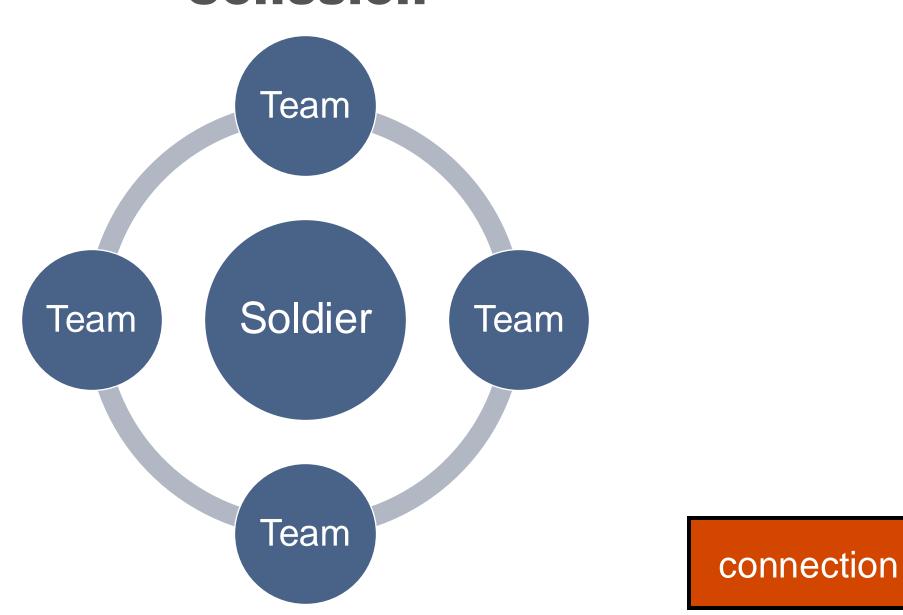
Sources of Resilience

- Individuals
- Teams
- Leaders





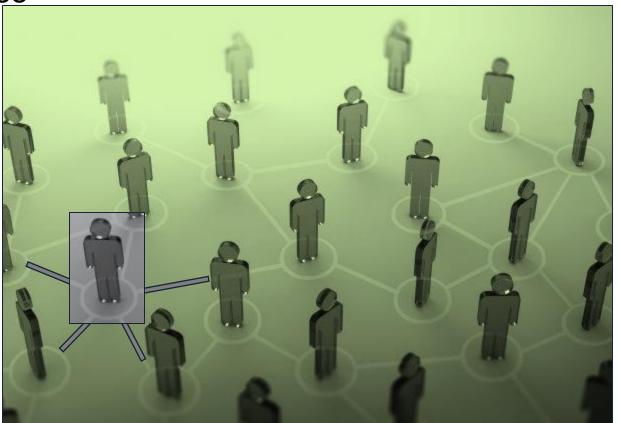
Cohesion





Social Isolation

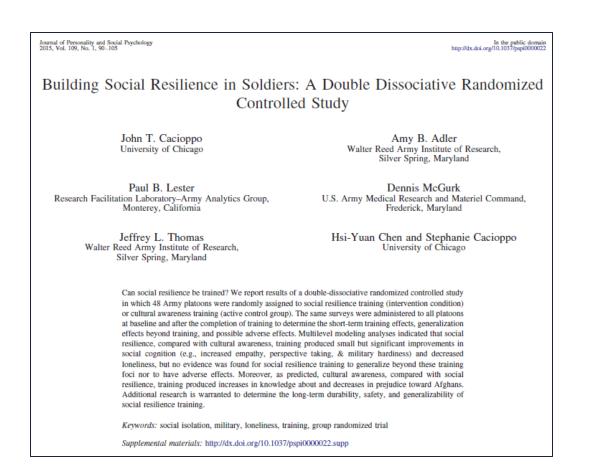
- Social isolation and loneliness are associated with more¹
 - depression and behavioral health problems
 - alcohol and substance abuse
 - relationship difficulties
 - suicide-related behaviors





TeamCORE: Background

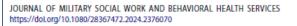
- Cacioppo et al. developed an 8-hour social connection intervention for military units which resulted in¹
 - improved social cognition (e.g., perspective taking, military hardiness)
 - decreased loneliness
- WRAIR re-packaged and condensed training
 - 2019 pilot (two 2-hour modules)
 - Identified need for leader component



¹Cacioppo et al. (2015)



Findings





RESEARCH ARTICLE

OPEN ACCESS OPEN ACCESS

Training Military Units in Social Connection: A Quasi-Experimental Randomized Trial

Coleen L. Crouch 💿, Ian A. Gutierrez 💿, Yvonne S. Allard 💿 and Amy B. Adler 💿

Center for Military Psychiatry and Neuroscience, Walter Reed Army Institute of Research, Silver Spring, MD, USA

ABSTRACT

KEYWORDS

Army; loneliness; isolation; cohesion; communication; psychoeducation; leaders; generalized linear mixed models

In the military, team cohesion and communication are essential. The present study examined the impact of training in social connection on loneliness, cohesion, communication, and connection-promoting behaviors. U.S. Army platoons were assigned to receive Team Cohesion and Organizational Readiness Enhancement (TeamCORE) training (n = 118; k = 11)or training-as-usual (n=135; k=15). TeamCORE consisted of 2.5 h of training for unit members and 1 h of training for platoon leadership teams. TeamCORE trainees completed a baseline survey, post-training survey, and two-month follow-up survey. Training-as-usual completed a baseline survey and two-month follow-up survey. Measures assessed loneliness, cohesion, team communication, connection-promoting behaviors, and shared mealtime. While there was substantial attrition between the baseline and follow-up survey, more than 80% of team members and leaders gave TeamCORE training high acceptability ratings. Multilevel models revealed significant time-by-condition interactions on 1 of 10 cohesion items, 1 of 11 team communication items, 2 out of 12 connection-promoting behaviors and 1 of 2 shared mealtime items; no significant time-by-condition interaction was found for Ioneliness. For each significant interaction, higher levels of improvement or sustainment were observed in the TeamCORE condition relative to training-as-usual. There were no comparisons in which the training-as-usual condition changed more positively than the TeamCORE condition. TeamCORE resulted in selected improvements in cohesion, communication, connection-promoting behaviors, and shared mealtime. While guite modest, findings demonstrated that brief, scalable training can demonstrate high levels of acceptability and slightly shift some attitudes, potentially improving the team's capacity for social connection over time.

unit cohesion

ust

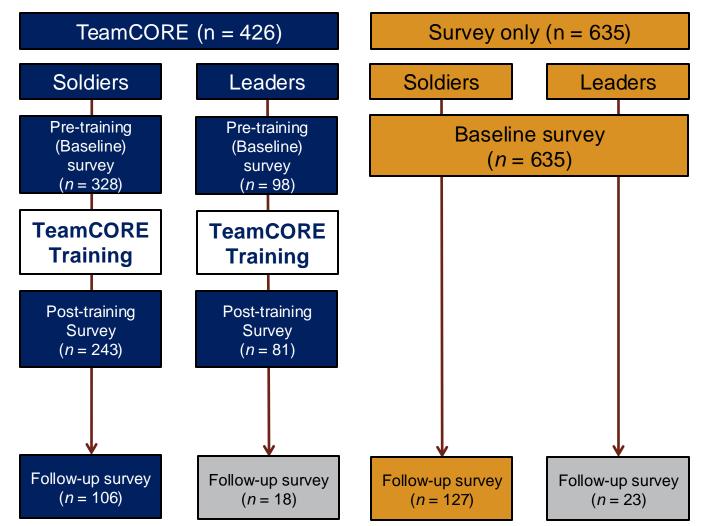
L

connection

culture

communication

Study Overview

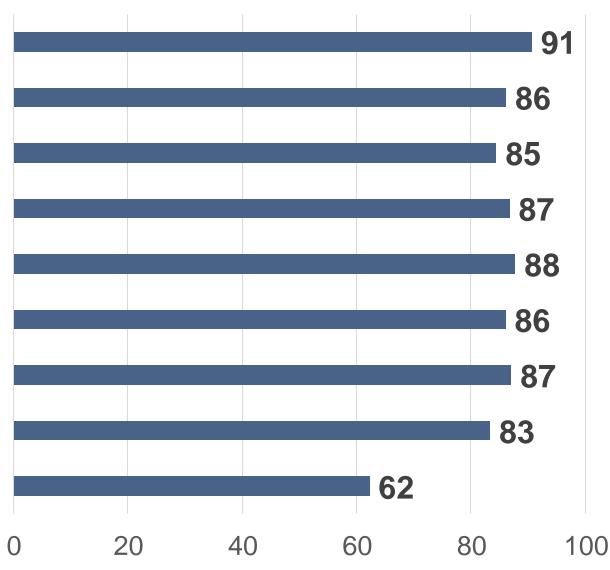


Note: Pre-training n's based on unique IDs (duplicates removed). Post-training survey n's based on pre-training to post-training match. Follow-up survey n's based on pre-training to follow-up survey match for Soldiers/Leaders who could be reliably identified as a member of a platoon with greater than 5 respondents. Leaders defined as Platoon leaders with position of Squad Leader or higher.

Source: Crouch, Gutierrez, Allard & Adler (2024)

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Training Ratings: Soldiers



I understood the information in this training

This training was relevant

I found this training to be useful

I want to apply what I learned to today to strengthen connections in my platoon I learned speciifc actions that I can take to build connections with other Soldiers in my platoon

I would recommend this training

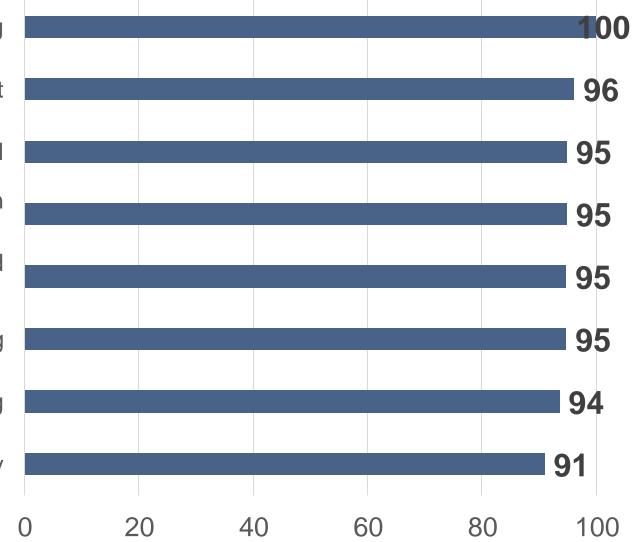
I am likely to use the skills I learned in today's training

I learned how to communicate more effectively

I liked the videos in this training



Training Ratings: Leaders



I understood the information in this training

This training was relevant

I found this training to be useful

I want to apply what I learned to today to strengthen connections in my platoon I learned speciifc actions that I can take to build connections with other Soldiers in my platoon

I would recommend this training

I am likely to use the skills I learned in today's training

I learned how to communicate more effectively

Note: Results from program evaluation data. Leader n = 81



UNCLASSIFIED

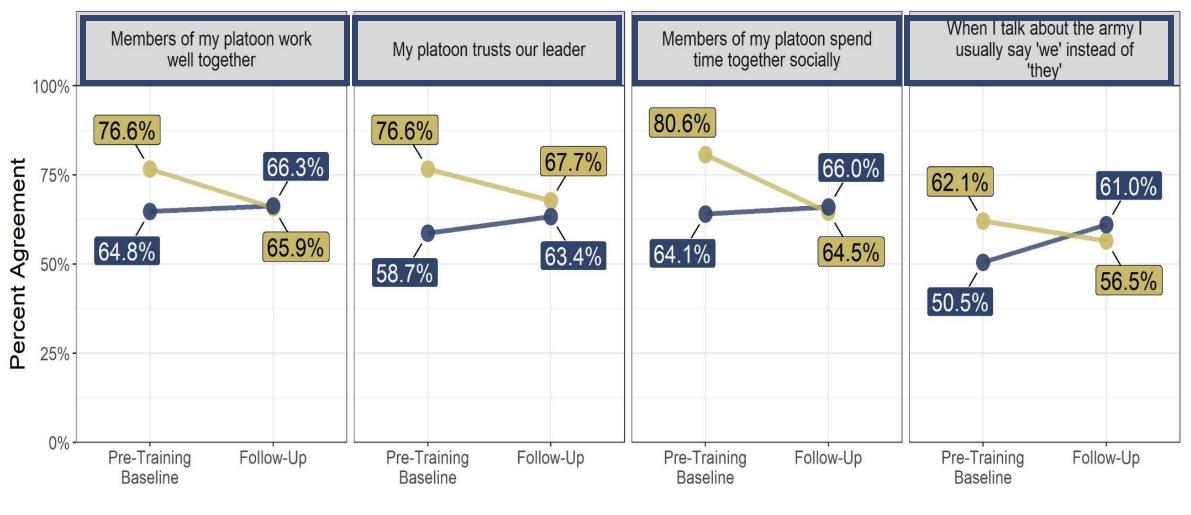
Results

- Compared to survey-only, Soldiers who received TeamCORE
 - Improved in 1 of 13 TeamCORE attitudes
 - Improved in 2 of 12 TeamCORE behaviors
 - Improved in 4 out of 18 cohesion items
 - Improved in 2 of 11 team communication items
 - Improved in 1 of 2 sharing mealtime items
- No differences between conditions in terms of
 - 4 self-reported readiness items
 - 7 social skills items

Source: Crouch, Gutierrez, Allard & Adler (2024)



TeamCORE Results: Connection



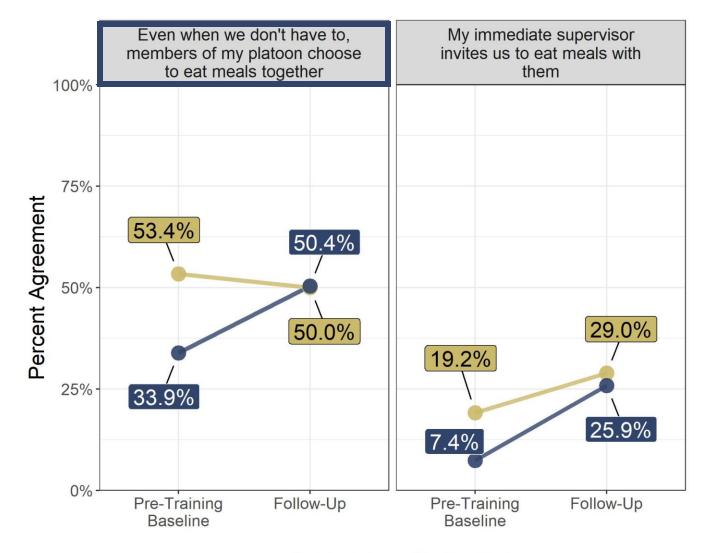
TeamCORE Survey only

Note: Results from program evaluation data. Sample items provided.

When measured as a continuous outcome, TeamCORE significantly improved on 7 of 11 items relative to survey only.



TeamCORE Results: Shared Mealtime



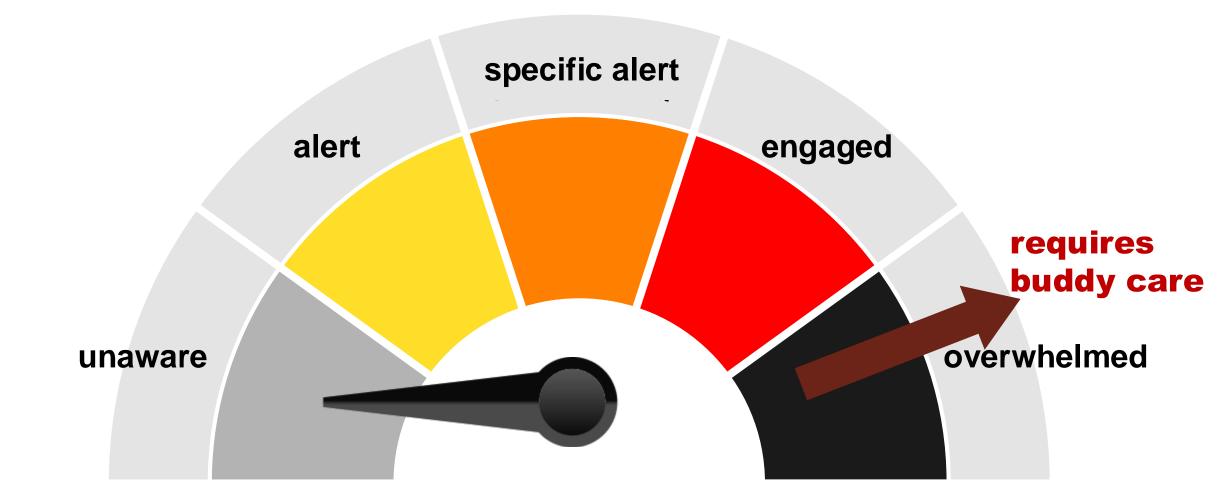
Training
 Control

Note: Results from program evaluation data. When measured as a continuous outcome, TeamCORE significantly improved on both items relative to survey only.



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Activation





Acute Stress

17% of Soldiers report possibly being so mentally stressed during combat that they were unable to function for a period of time

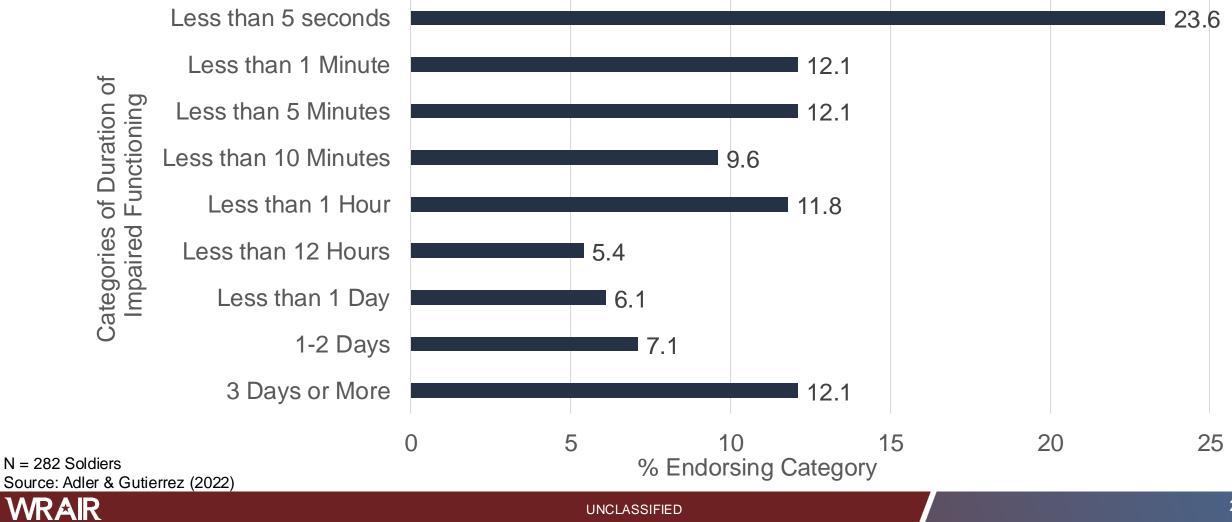
Source: Adler & Gutierrez (2022)

WRAIR



Duration

Self-Reported Duration of Impaired Functioning Associated with Combat-Related Acute Stress Reaction



What proportion of service members with combat experience report seeing acute stress reaction in team members?

40-50%

source: Adler, Svetlitzky & Gutierrez (2020) BJPsych Open





Translating and Adapting

YaHaLOM Israel Defense Forces

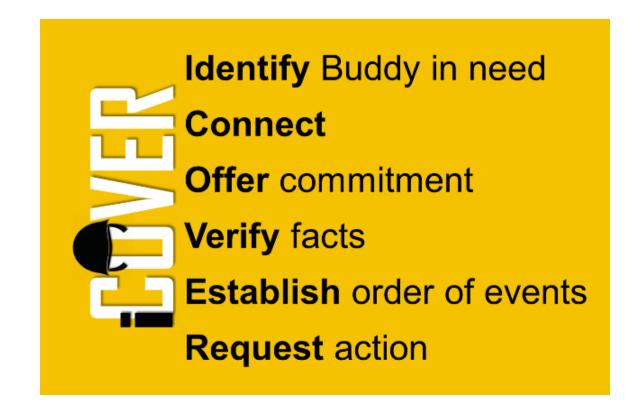


iCOVER US Army





iCOVER Steps

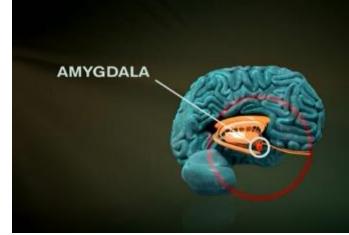




iCOVER









https://www.youtube.com/watch?v=t84_QvbnIT0 YouTube Search: "WRAIR" and "iCOVER"



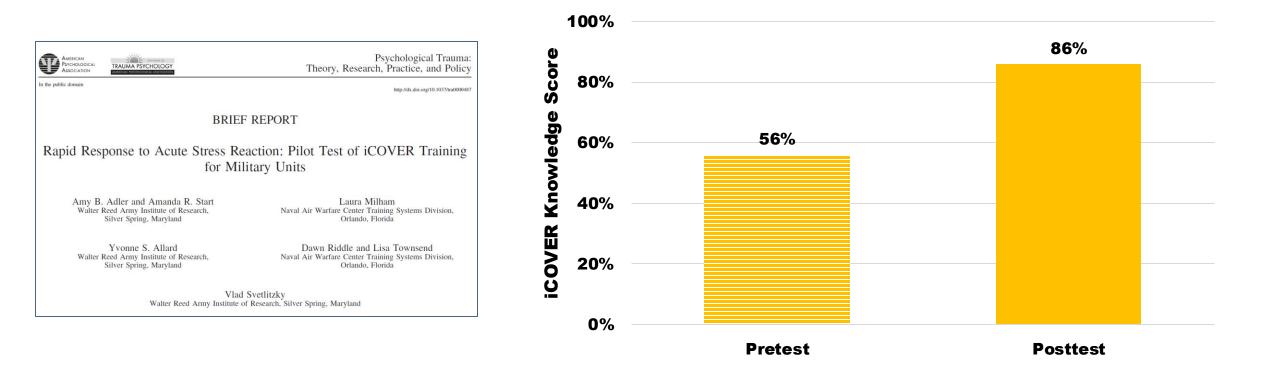
Realistic Training



Source: Adler, Start, Milham, Allard, & Svetlizky (2019) Psych Trauma



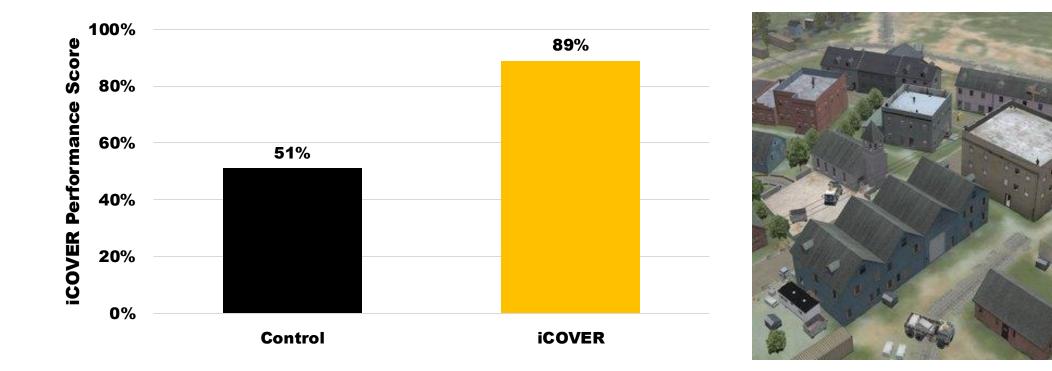
iCOVER Knowledge



Source: Adler, Start, Milham, Allard, & Svetlizky (2019) Psych Trauma



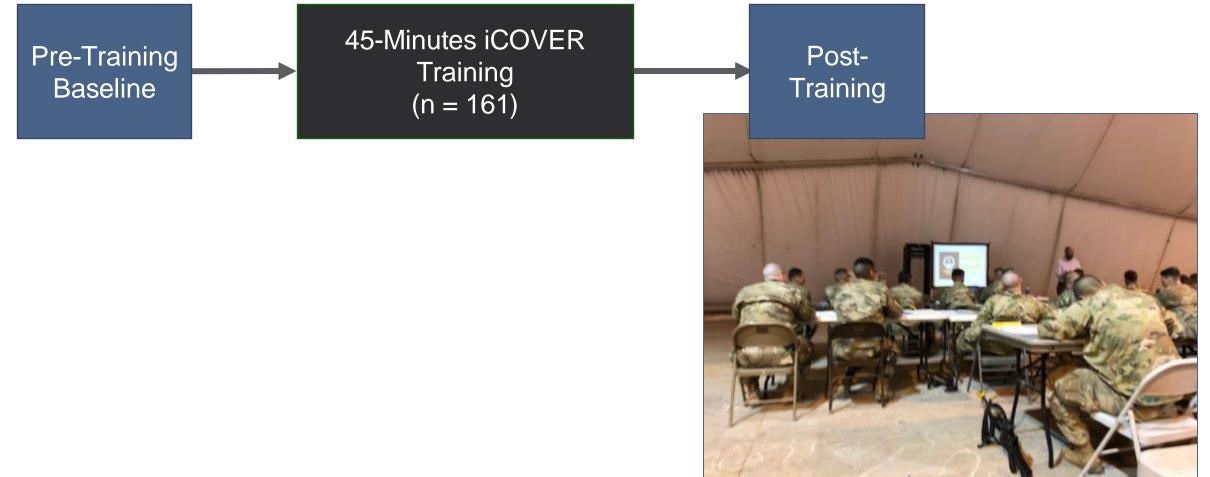
iCOVER Performance



Note: iCOVER Standard (in-person practice)

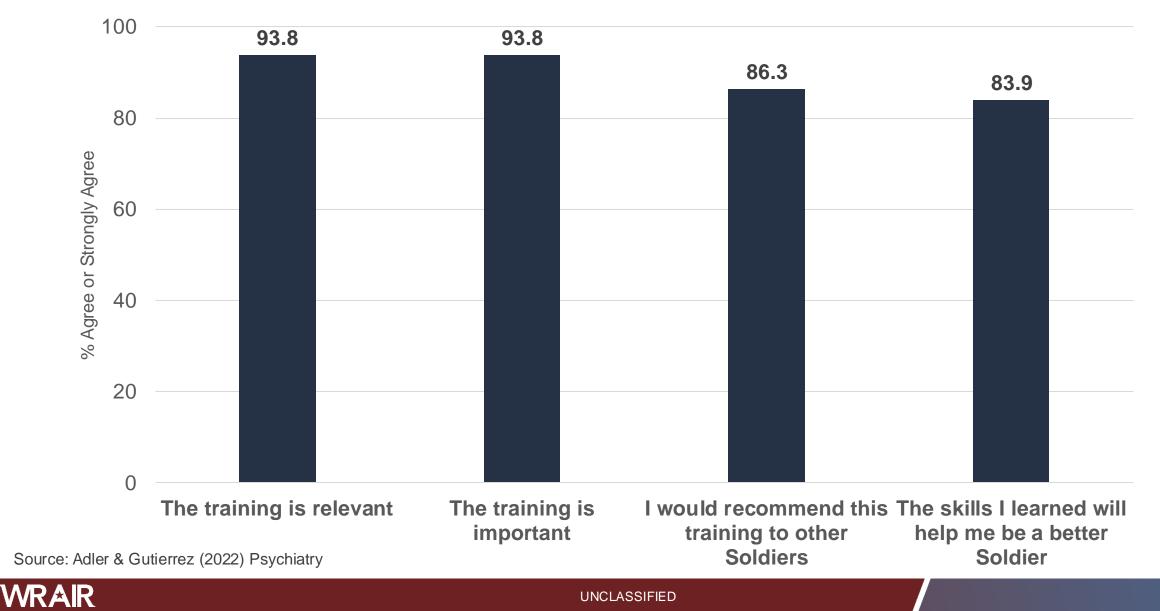


iCOVER Deployment Study

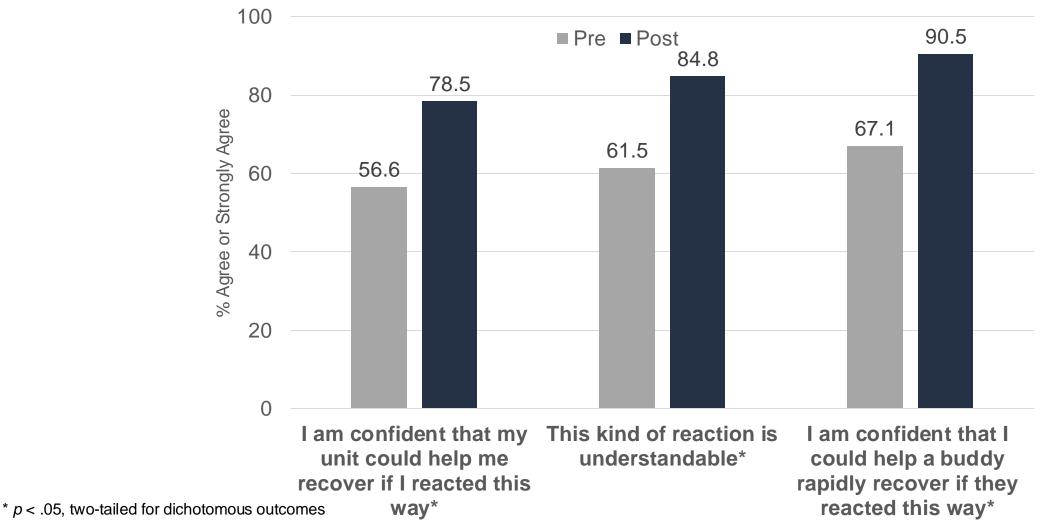


Source: Adler & Gutierrez (2022) Psychiatry

Perceptions of iCOVER



Attitudes about Acute Stress Reactions



Source: Adler & Gutierrez (2022) Psychiatry

WRAIR

Other Nations: Examples



Norway

Canada

Germany



Mindfulness in the Army

LEADING WITH ATTENTION: MINDFULNESS TAKES HOLD As army embraces the now

f 💟 in 🚭 F

LT. GEN. WALTER PIATT Col. Deydre teyhen

AMY ADLER

Friday, March 19, 2021





Mindfulness Operational Outcomes Study

- Mindfulness-Based Attention Training (MBAT; Dr. Amishi Jha, U of Miami)
 - 2-hour MBAT session/week for 4 weeks
 - MBAT Practice 3-5 times/week





MILITARY MEDICINE, 00, 0/0:1, 2021

Optimizing Performance and Mental Skills With Mindfulness-Based Attention Training: Two Field Studies With **Operational Units**

CPT Thomas H. Nassif, PhD, MS, USA*; Amanda L. Adrian, PhD*; Ian A. Gutierrez, PhD*; Alexis C. Dixon, MPH*: Scott L. Rogers, JD+: Amishi P. Jha, PhD+: Amv B. Adler, PhD*

ABSTRACT Introduction:

Mental skills such as focusing attention and managing emotions are essential for optimal performance in high-stress occupations. Studies with military samples have demonstrated that mindfulness training (MT) led to improved computerbased cognitive performance.

Materials and Methods:

To examine the impact of MT on operational performance, mental skills, and psychological health, a short-form program, Mindfulness-Based Attention Training (MBAT), was delivered to active duty soldiers as part of two randomized trials. Participants in study 1 (n = 121) and study 2 (n = 77) were randomized to one of three conditions: MT with proctored practice, MT with unproctored practice, or a waitlist control. Weekly 2-hour MBAT sessions were offered to participants in both MT conditions for 4 weeks. Beyond these sessions, participants also engaged in mindfulness practice that was proctored (within the occupational context) or unproctored (left up to the individual) for four subsequent weeks.

Overall, the frequency of mindfulness practice was generally associated with better performance and improvements in mental skills. In study 1, those who practiced 3 or more days per week performed better on marksmanship under physical stress and reported fewer attentional lapses, less emotion regulation difficulties, greater mental toughness, and higher self-reported mindfulness compared to those who did not practice. In study 2, the frequency of mindfulness practice was associated with fewer attentional lapses and emotion regulation difficulties.

Conclusions:

Consistent with prior findings, results suggest that regular engagement in MT practice may help to optimize operational performance and improve mental skills in military cohorts.

INTRODUCTION

"The most important six inches on the battlefield is between your ears." This quote from General James Mattis underscores the need for service members to be mentally fit to perform optimally in high-stress occupations. Yet, exposure to work-related stressors in high-risk environments can deplete

*Center for Military Psychiatry and Neuroscience, Walter Reed Army

Institute of Research, Silver Spring, MD 20910, USA [†]Mindfulness in Law Program, University of Miami School of Law, Coral

Gables, FL 33146, USA Study results were presented in part at the AMSUS Annual Meeting,

December 2019, National Harbor, MD; the Military Health System Research Symposium, August 2019, Kissimmee, FL; and the American Psychological Association Annual Meeting, August 2020.

This article has been reviewed by the Walter Reed Army Institute of Research. There is no objection to its presentation and/or publication. The opinions or assertions contained herein are the private views of the authors and are not to be construed as official or as reflecting true views of the Department of the Army or the Department of Defense. The investigators have adhered to the policies for the protection of human subjects, as prescribed in AR 70-25.

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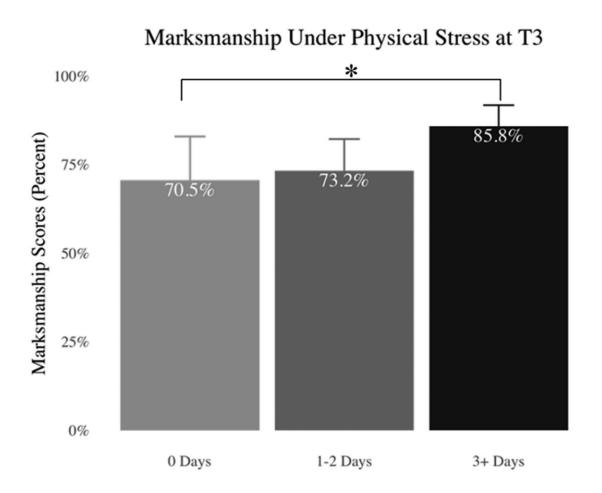
MILITARY MEDICINE, Vol. 00, Month/Month 2021

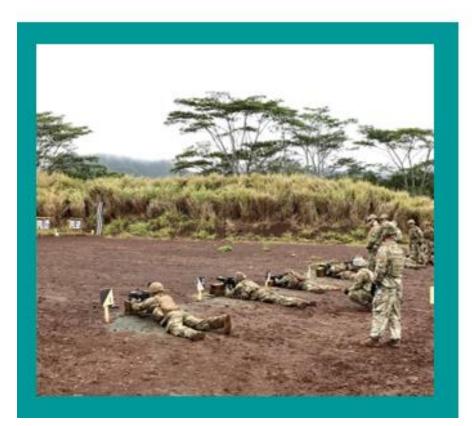
mental resources needed to perform, stay focused on essential tasks, and regulate emotions.1,2

A potential strategy to address these concerns is mindfulness training (MT). Although MT supports cognitive performance in military populations,² it is unclear if MT improves operational performance, mental skills, or psychological health. Research also needs to clarify the role of mindfulness practice and if benefits can be sustained over time. The current studies aim to address these questions in a sample of U.S. Army soldiers.

Mindfulness is a mental practice involving focusing attention on the present moment without elaboration or judgment.3 Mindfulness training programs emphasize concentrative attention, open monitoring, and receptivity to inner and outer experiences to reduce inattention and manage stress.2 These attributes are especially relevant for high-stress occupations like the military.4 Studies with service members have found that MT resulted in better cognitive performance using laboratory-based measures,2,5,6 and there are mixed results regarding the benefit of MT on marksmanship among civilians.7-13 Most of these civilian studies, however, were limited to assessing performance immediately following a mindfulness induction.

Stress Shoot

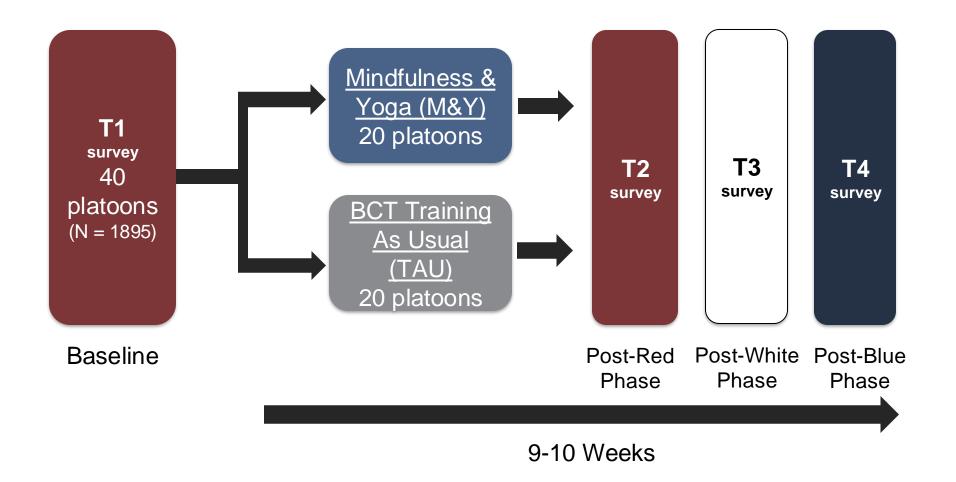




Nassif et al. (2021) in Military Medicine



Study Design





Training: Yoga-PRT and MBAT





Typical Day of M&Y Practice (During and Following 8hr MBAT Course)

15 min15 minYogaYogaPre-PRTPost-PRT

Source: Nassif, Gutierrez, Smith, & Adler

WRAIR

Recommended Embedded Individual MBAT Practice (37% of trainees report 3+ days/week) 15 min Group MBAT Practice

*Partially funded by TRADOC

Physical Health

TYPE Original Research Frontiers | Frontiers in Psychology PUBLISHED 06 October 2023 DOI 10.3389/fpsyg.2023.1214039 Impact of mindfulness training Check for updates and yoga on injury and OPEN ACCESS EDITED BY pain-related impairment: a group Javier Garcia-Campayo, University of Zaradoza, Spain randomized trial in basic combat REVIEWED BY Morteza Taheri, University of Tehran, Iran training Barton Buechner, Adler School of Professional Psychology, United States Carl D. Smith1*, Ian A. Gutierrez¹, Thomas H. Nassif¹ *CORRESPONDENCE Carl D Smith Kimberley L. Jordan², Kathryn M. Taylor³, Amishi P. Jha⁴ and E carl.d.smith179.mil@health.mil Amy B. Adler¹ RECEIVED 23 May 2023 ACCEPTED 15 September 2023 ⁵Center of Military Psychiatry and Neuroscience, Walter Reed Army Institute of Research, Silver Soring, PUBLISHED 06 October 2023 MD, United States, "Center for Initial Military Training, Fort Eustis, VA, United States, "Military Performance Division, U.S. Army Research Institute of Environmental Medicine, Natick, MA, United CITATION States, 4Department of Psychology, University of Miami, Coral Gables, FL, United States Smith CD, Gutierrez IA, Nassif TH, Jordan KL, Taylor KM, Jha AP and Adler AB (2023) Impact of mindfulness training and yoga on injury and pain-related impairment: a group randomized trial in basic combat training. Introduction: Service members are at risk for pain-related difficulties in Front. Psychol. 14:1214039 functioning and physical injury. Previous studies suggest that mindfulness training dol: 10.3389/fpsyg.2023.1214039 (MT) and yoga may prevent these outcomes. The present study was designed CORVEIGHT © 2023 Smith, Gutlerrez, Nassit, Jordan, Taylor, to determine the impact of MT and yoga on the health, pain, and injury of Army Jha and Adler. This is an open-access article trainees completing 10 weeks of basic combat training (BCT). distributed under the terms of the Creative ommons Attribution License (CC BY). The Methods: Platoons (≈40 trainees per platoon) were randomized to MT and yoga use, distribution or reproduction in other or training-as-usual in October to December 2020 at a large installation in the forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this

journal is cited, in accordance with accepted

academic practice. No use, distribution or

reproduction is permitted which does not comply with these terms. US. Self-reported outcomes were health, pain level, and pain impact on training, sleep, mood, and stress. Objective outcomes were injury-related medical encounters and number of diagnoses. The trial was registered at ClinicalTrials. Gov (NCT05550610). Results: Intervention trainees reported significantly better health (OR = 1.05, 95%)

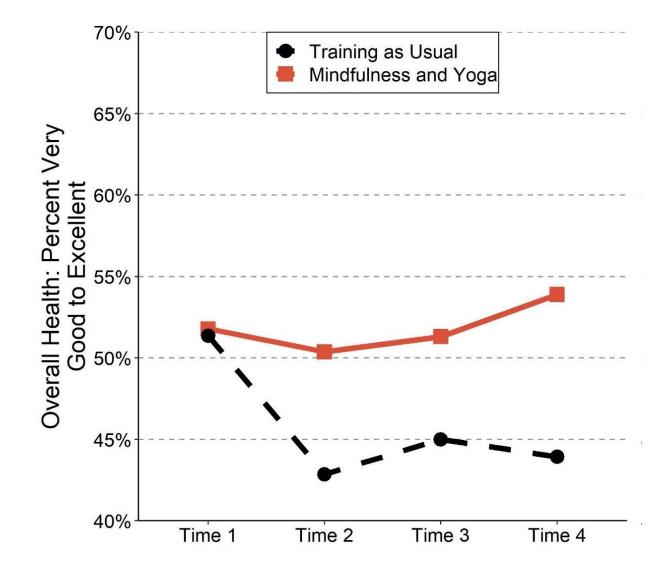
Results: Intervention trainees reported significantly better health (OR = 1.05, 95% CI [1.00, 1.10]) and less impact of pain on training (OR = 0.81, 95% CI [0.74, 0.90]), sleep (OR = 0.88, 95% CI [0.81, 0.95]), mood (OR = 0.86, 95% CI [0.78, 0.96]), and stress (OR = 0.88, 95% CI [0.79, 0.98]). There was no significant difference in injuryrelated medical encounters (AOR = 0.70, 95% CI [0.48, 1.03]), but intervention trainees had fewer diagnoses (OR = 0.67, 95% CI [0.47, 0.95]) and were 30% less likely to have a first medical encounter at any time during BCT. This difference emerged 3 weeks into BCT.

Discussion: A combined MT and yoga intervention resulted in better trainee health. The US Army and other organizations requiring resilience under extreme stress should consider implementing MT and yoga to offset risks to employee health.

REYWORDS military, mindfulness, yoga, injuries, pain

WRAIR___

Self-Reported Health



Note: Practice level defined by trainees' reported level of practice at T4.

Smith et al. (2023) in Frontiers in Psychology



Pain

- No significant difference for
 - pain level
 - pain intensity
- Trainees in the Mindfulness & Yoga condition reported less pain interfering with

Training

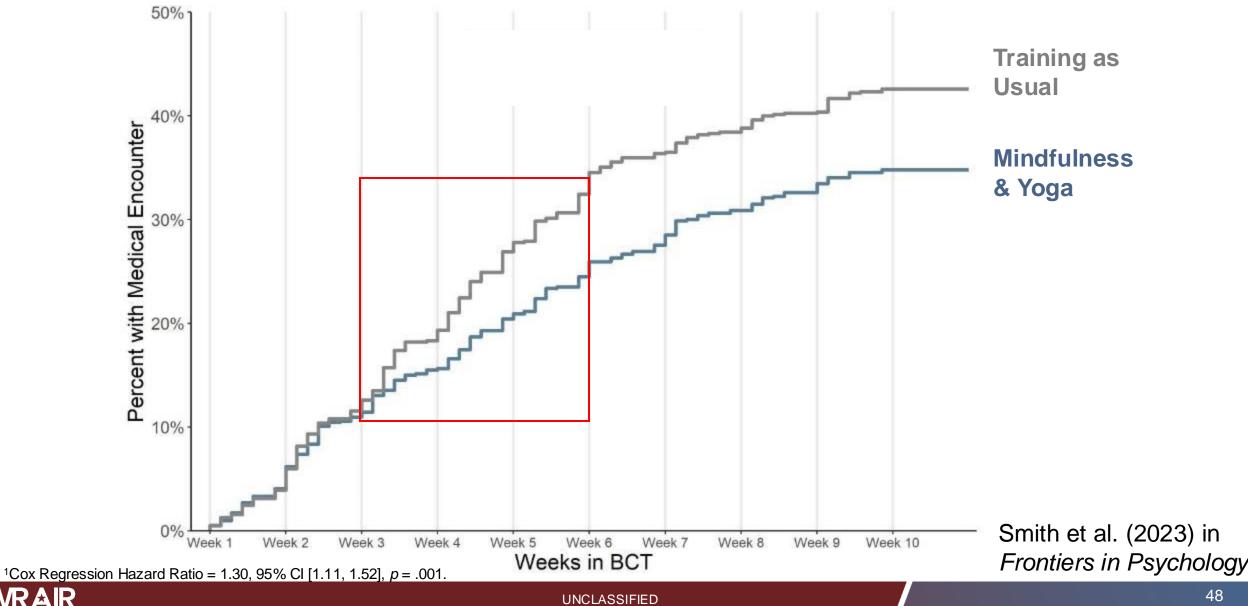
Sleep

Mood

Stress



Medical Encounters



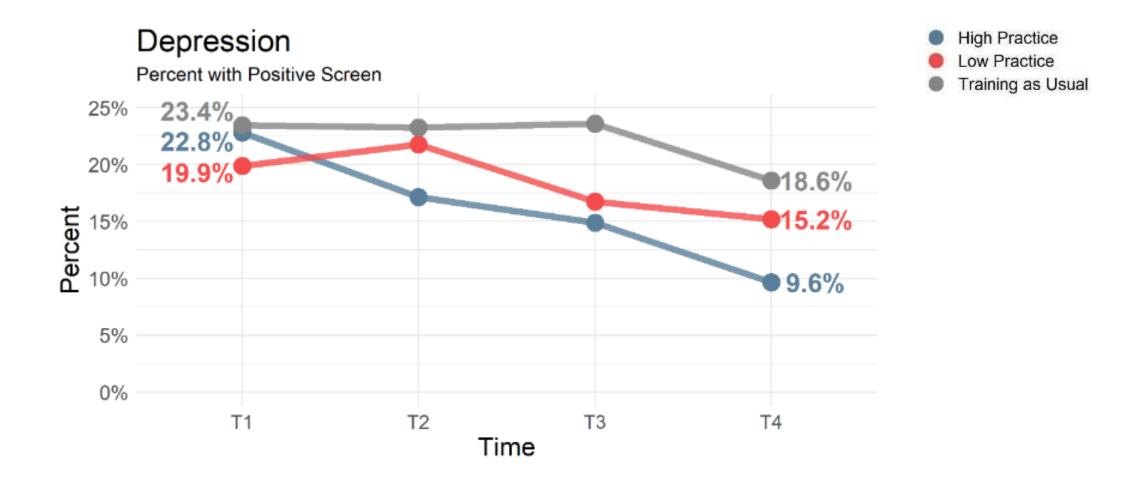
WRAIR

Mental Health





Mental Health



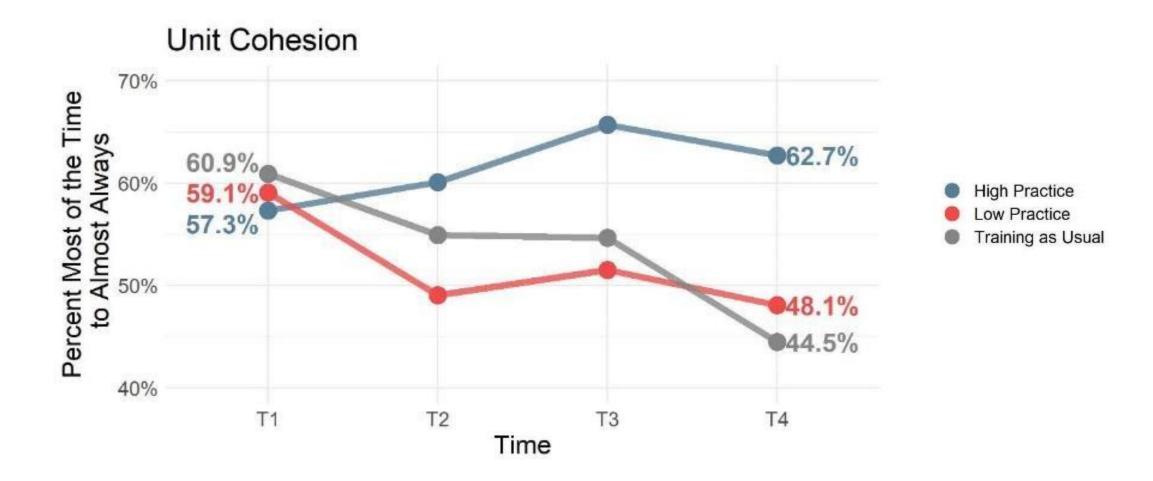
Note: Practice level defined by trainees' reported level of practice at T4.

*Also significant differences for depression by training condition regardless of individual practice frequency.

Nassif et al. (2023) in *Depression and Anxiety*



Unit Climate



Note: Data from program evaluation data. Practice level defined by trainees' reported level of practice at T4 *High practice significantly improved relative to low practice and Training as Usual at p<.05 on continuous outcome. Also significant differences by training condition regardless of individual practice frequency.



Trainee Survey: Drill Sergeant Engagement

- Trainee ratings how much Drill Sergeants
 - Attended MBAT activities
 - Emphasized importance of MBAT
 - Referred to MBAT when talking with traineer
 - Encouraged trainees to use MBAT
 - Talked about using MBAT in their own lives



Minimal

Moderate to High

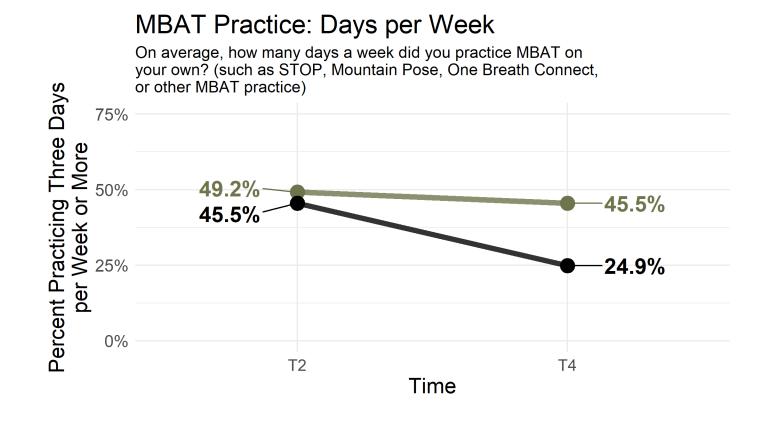
Not at all—A little bit—Occasionally—Quite a bit—A lot

40.2% Minimal Drill Sergeant Engagement in MBAT

59.8% Moderate to High Drill Sergeant Engagement in MBAT

Note: Minimal engagement defined as an average rating of "Not at all"); Moderate to high drill sergeant engagement defined as an average rating of "A little bit" or more; Data from T4 MBAT Survey

Perceptions of Drill Sergeant Engagement and Trainee Practice



Moderate to High Drill Sergeant Engagement in MBAT

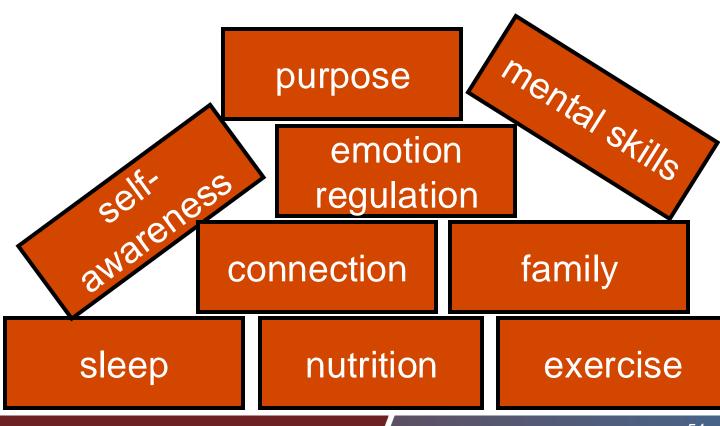
Minimal Drill Sergeant Engagement in MBAT

Note: Engagement defined by trainees' perceptions of drill sergeants at T4 (Not at all vs. A little bit or more) for items such as attended MBAT activities, emphasized importance of MBAT, Referred to MBAT when talking with trainees, Encouraged trainees to use MBAT



Sources of Resilience

- Individuals
- Teams
- Leaders





Leadership

- Good military leadership is associated with Soldier mental health and performance
- General leadership skills are
 - Relatively "blunt instrument" for addressing specific challenges
 - Harder to teach





Domain-Specific Leadership





Sleep Matters

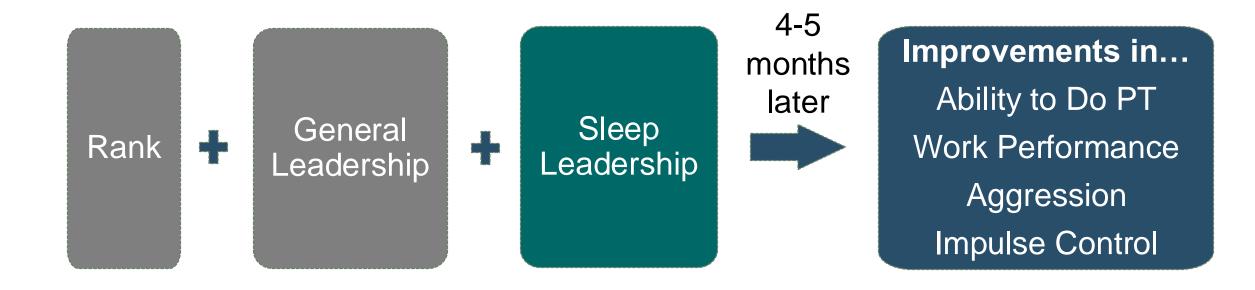
 Safety Performance Moral decision-making 	Cognitive Funct	tioning		
 Physical conditioning Health risk behaviors Immune system functioning Pain Long-term health Testosterone 	Physical Health	Physical Health		
 Relationships Behavioral health problems Negative Mood 	Emotions	sleep		

Sleep Leadership Behaviors

	Immediate Leaders Often/Always
Considers sleep as an important planning factor	34.7%
Encourages Service Members to get extra sleep before missions that require long hours	34.6%
Encourages Service Members to try to go to sleep on time	29.8%
Works to ensure Service Members have a good sleep environment (quiet, dark, not too hot or cold)	23.6%
Discourages the use of caffeine or nicotine within several hours before trying to go to sleep	14.1%
Encourages Soldiers to reduce sleep distractions by using earplugs, eye-masks or other strategies	10.8%
Asks Service Members about their sleeping habits	5.8%



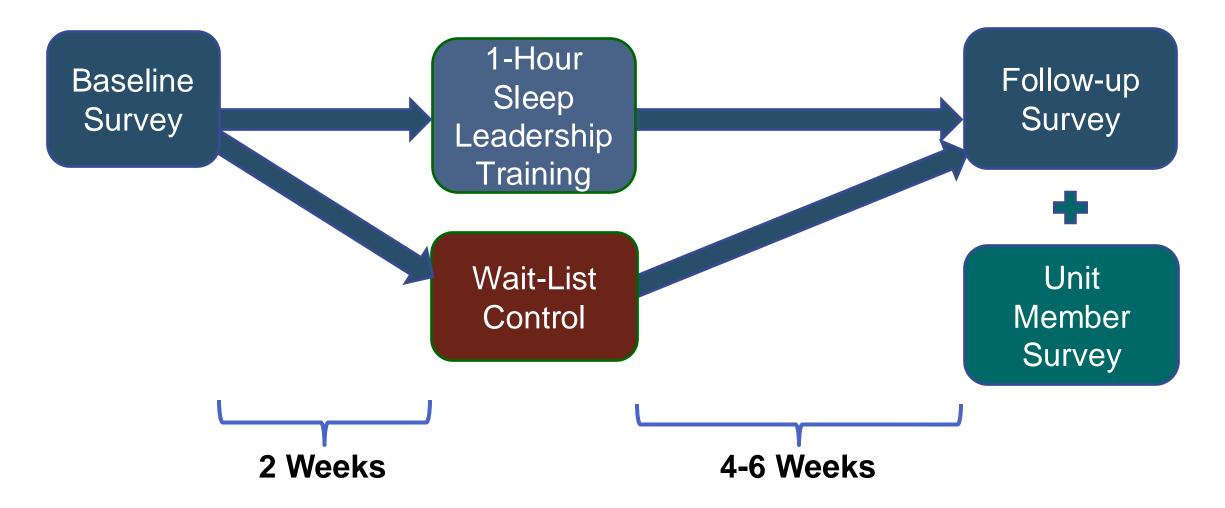
Sleep Leadership and Positive Changes



Source: Gunia, Adler, Bliese, & Sutcliffe (2021) Occupational Health Science



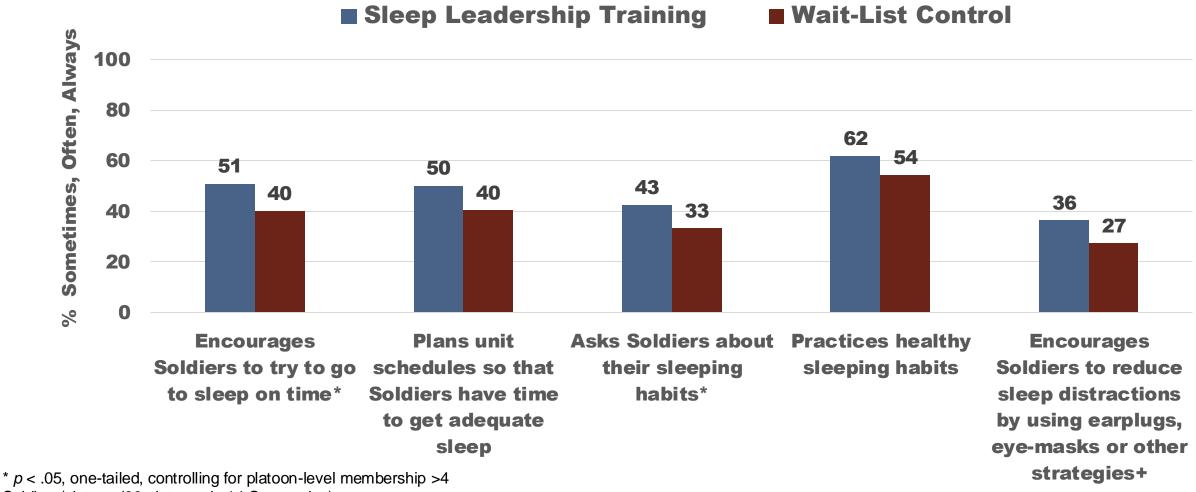
Group Randomized Trial



Source: Adler, Bliese, LoPresti, McDonald & Merrill (2021) Sleep Health



Do Unit Members Rate Platoon Leaders with Training Higher?



Soldiers/platoon (39 platoons in 14 Companies)

Source: Adler, Bliese, LoPresti, McDonald & Merrill (2021) Sleep Health

Do Unit Members Report More Sleep if Leaders Received Training?



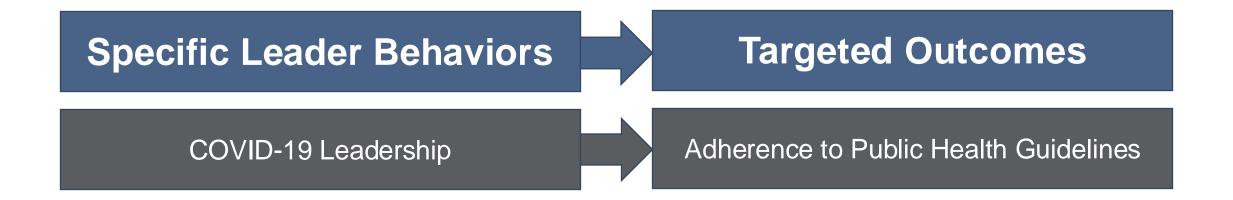
* p < .05, one-tailed

>4 Soldiers/platoon (39 platoons in 14 Companies)

Source: Adler, Bliese, LoPresti, McDonald & Merrill (2021) Sleep Health



Other Leadership Targets





Senior Leaders: Prioritizing Resilience

AFTER 15 YEARS OF CONFLICT

Enhancing Resilience

in an Operational Unit

Douglas A. Sims II and Amy B. Adler ©2017 Douglas A. Sims II

> ABSTRACT: Leaders understand the importance of training their soldiers for rigorous combat assignments, but frequently misunderstand the importance of engaging in the resilience training activities discussed in this article.

esilient soldiers, cohesive teams, and adaptable leaders serve as the backbone of the human dimensions concept, enabling effective performance in decentralized operations over protracted periods of conflict.1 While there are many ways to build these capabilities, including tough realistic training, soldiers can also be trained in specific resilience skills that help them withstand and recover from significant stress. Such training can yield surprising benefits; but with competing requirements for units' time, leaders want to be confident that resilience training is worth the effort.

While evidence-based resilience training that has proven effective with servicemembers is a wise investment, both financially and in terms of human resources, even good, empirically validated resilience training implemented half-heartedly and with mixed messages from leadership is not worthwhile. When the unit environment undermines the purpose of resilience training with a "check-the-block" mentality or when the training is isolated from everyday military life, the training loses potential value. And, despite its potential importance in helping soldiers, resilience training is not a panacea: everyone has a point at which bouncing back from stress is more difficult.

Resilience Training

Nevertheless, resilience skills training can help soldiers better manage the psychological demands of military life and enhance the readiness of all a unit's members. Given each person's backgroundeducation, religion, socioeconomics, family, etc.-is different, each person's resilience is also different; thus, training needs likewise differ. When unit training is provided, the training content will be novel for some soldiers, but others may find the training redundant. So leaders have a choice: build new skills for subgroups or approach resilience training as a unit-based task similar to other traditional military training.

The benefit of focusing on groups who need specific training is that at-risk soldiers may get more individualized attention while other soldiers can focus on different tasks and can avoid unnecessary training. The cost of this approach includes possibly stigmatizing and inadvertently

1 US Army Training and Doctrine Command (TRADOC), The US Army Human Dimension Concept, TRADOC Pamphlet 525-3-7 (Fort Eustis, VA: TRADOC, 2014).



OPTIMIZING VICTORY WELLNESS CHECKS: A QUICK GUIDE FOR UNIT LEADERS

This Quick Guide highlights how Leaders can optimize the utility of Wellness Checks for their Soldiers.

LET SOLDIERS KNOW ABOUT WELLNESS CHECKS

Ensure your Soldiers know what a Wellness Check is

- A 30-45 minute session
- An annual requirement
- Conducted by Military and Family Life Counselors (MFLCs)
- Confidential No records are kept (they are outside of the medical system)
- · An opportunity to promote personal resilience and personal development
- · An introduction to what counseling is like and a chance to decrease stigma
- Time that Soldiers can use for their own benefit

PREPARE SOLDIERS FOR THEIR WELLNESS CHECK

In an anonymous survey of more than 3,000 Soldiers who had completed a Wellness Check, Soldiers were asked how they prepared for their Wellness Check and used their Wellness Check time.

Ready with a Soldiers who go into their Wellness Check with a topic they want to talk about are 3 times as likely to report the Wellness Check is helpful to them in their professional and personal life. Topic

Soldiers who use their Wellness Check time to reflect on their life are nearly 5 times as likely Time to to report the Wellness Check is helpful to them in their professional and personal life. Reflect

80

60

40 le le

20

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Ag

Strategies for Optimizing Wellness

Checks and Wellness Check Utility

59.0

18.5

about

Disagree/Neutral Agree

I went into the Victory I used the times during

Wellness Check with a my Victory Wellness

topic I wanted to talk Check to reflect on my life

54.0

11.0

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Encourage your Soldiers to plan for their Wellness Check

Ask your Soldiers how they will use their Wellness Check time to reflect, grow, and build resilience. Have them consider topics that might be meaningful to them

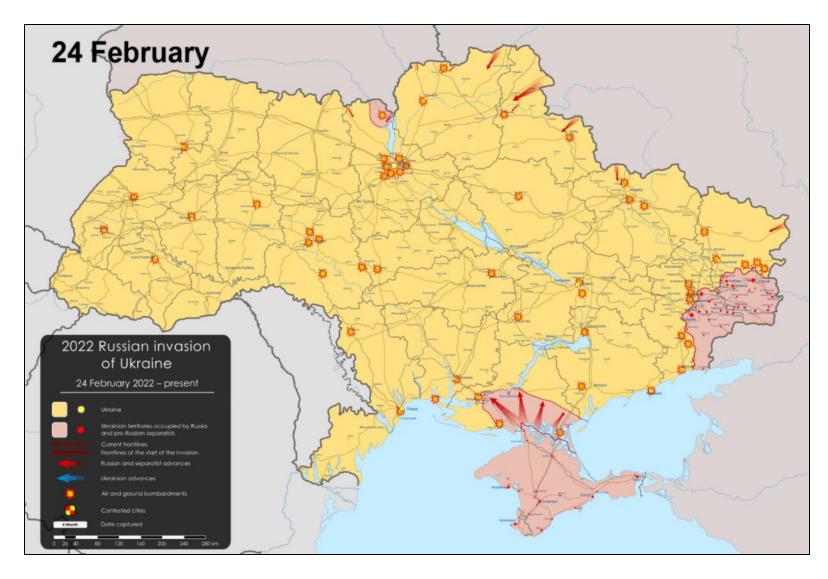
- Emotional health (like anxiety/stress)
- Connections with friends and unit
- Family (Spouse, kids, parents)
- Work-related demands
- Leadership skills
- Performance at work
- Prompt Soldiers during their 1-on-1 military counseling to · Sense of meaning and purpose consider whether some goal or challenge might be a good topic Personal and professional goals for their Wellness Check



A Quick-Guide for Leaders I Approved for public release; distribution unlimited I September 2021 | Version 1.0



Senior Leaders: Real-World Resilience



Source: https://en.wikipedia.org/wiki/2022_Russian_invasion_of_Ukraine



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What Themes, Concerns, and Solutions Did You Hear?



Themes

✓A confluence of factors

- ✓ Recognizing signals
- ✓Taking a pause
- ✓ Leading by example doesn't mean always being steady state
- ✓The strength of an apology
- ✓Leveraging social connection

✓ Passing it forward



Rapid Dissemination

WRAIR

60

QUICK GUIDE FOR LEADERSHIP

SUSTAINING MENTAL READINESS IN THE CONTEXT OF PROLONGED STRESS

With Russia's invasion of Ukraine, U.S. Soldiers are living in a heightened state of readiness, uncertain how the crisis will evolve. Maintaining the mental fitness and wellbeing of these Soldiers is critical given that persistent physiological and psychological stress (ambiguity, family separation, underlying pressure, problems outside of their control, etc.) can diminish motivation, wellbeing, and psychological health.

This Quick Guide highlights strategies that can protect mental health, bolster resilience, and maintain mental readiness Leaders can reinforce these strategies as part of their routine touchpoints.

KEY POINTS TO CONSIDER

PRIORITIZE HEALTHY	 Sleep is important for physical health, emotion regulation, and cognitive functioning Psychological stressors (like uncertainty and ambiguity) and environmental stressors (like noise, light, and temperature) can interfere with good sleep hygiene
SLEEP	Soldiers practice better sleep habits when their leaders emphasize the importance of sleep
	Preparing the body for sleep by engaging in a regular bedtime routine and limiting blue light can support good sleep
	When regular sleep isn't possible, tactical napping can help
	To prepare for anticipated lack of sleep, bank sleep ahead of time
REINFORCE	Individual resilience can be strengthened by practicing mental skills
MENTAL Skills	Grounding, deep tactical breathing, self-talk, and buddy-talk can be integrated into daily life to reduce anxiety and maintain focus (see next page for details)
MANAGE	Anger can be a normal response to upsetting events, but uncontrolled or problematic anger can interfere with functioning and good decision making
ANGER	Challenging thinking can strengthen emotion regulation (see next page for details)
SUSTAIN	Leaders set the tone. Choose how to leverage group emotion, which can aid (or hinder) team functioning under stress (see next page for details)
COHESION	Emphasizing the team's purpose and values when facing uncertainty or setback is essential for boosting optimism and resilient performance
PAY	The more leaders practice and encourage resilience skills, the more their Soldiers will too
ATTENTION	Leaders who monitor their own wellbeing are better able to sustain their unit's readiness
resilience an	focus on resilience can get lost amidst mission-critical tasks. Leaders have an opportunity to reinforce Soldier Id readiness by acknowledging the underlying mental stress, deliberately integrating resilience skills into points, and coaching Soldiers to use these skills.
Leader Quick-Guide or	Sustaining Readiness Approved for public release; distribution unlimited March 2022 Version 1

COACHING SOLDIERS DURING PERIODS OF PROLONGED STRESS

ACCEPTANCE		When something that cannot be con	
HOW?		Acknowledge the stress and remind So Ask "how can I change it?" to identify w Develop a short phrase (like "let it go")	
DELIBERATE	BRE	ATHING When feeling overwhel	
HOW?		Take slow, deep breaths from the stom Count to 5 while breathing in, and cour Practice for 2 minutes and focus on the	
GROUNDING		When needing to reduce overwhelm	
HOW?		Identify 3 things that the Soldier sees, I Use this technique as a quick method f	
SELF-TALK/B	UDD	Y-TALK When needing to boost	
HOW?		Create a short phrase to increase confi Develop short phrases to walk through	
EMOTION REI	GUL/	TION When negative feelings a	
HOW?		Label emotions with specific words. Fo feeling as "mad", consider if the feeling something else. Selecting specific word	
		Try "5-5-5." Take the perspective of you small concerns 5 weeks, 5 months, and	
		Take a tactical pause before respondin	
SETTING THE	TON	E When team emotions need re	
HOW?		Remember that emotions and connect	
		Consider that contagion is fueled by w	
		Check and recalibrate yourself: Team	
		You have the opportunity to reset every	
TEAM COHES	ION	When sustaining trust and con	
HOW?		Remind the team of the importance of	
		Express gratitude for the team's shared	

ustaining NATO service member ental health during the crisis Ukraine

ny B Adler 💿 .¹ D Forbes.² R J Ursano³

world has been transfixed by Russia's grounding, deep breathing and self-talk into asion of Ukraine. While Ukrainians are usual routines.¹ ails of the invasion of Ukraine evolve, cohesion. Here the research is also clear, usands of North Atlantic Treaty Organi- team cohesion and leaders are critical for tion (NATO) troops are located in posi- maintaining resilience and positive mental ns across Europe in a heightened state of health trajectories.¹ Team members can Provenance and peer review Not commissioned; diness. These troops are functioning shape emotional contagion that can aid (or der prolonged psychological stress, hinder) groups and support one another in ich may potentially diminish motivation, times of mental stress. Leader emphasis on ratively impact psychological health and the team's purpose and values, especially in luence long-term health sequelae. Service a state of uncertainty or setback, can sustain mbers may also feel frustrated or help- optimism and commitment. Teams and that they are not providing direct leaders can also be effective by managing Open access This is an open access article distributed port to the Ukrainians. Given what has expectations and addressing boredom. en learnt about mental health from For both individuals and teams, another vious conflicts, employing primary risk factor is anger. Anger can and does wention strategies is important for have an adaptive function and can drive tecting mental health, resilience and the individuals to mobilise their resources in clied, appropriate credit is given, any changes made ntal readiness of allied forces. Strategies the face of injustice. However, problematic t build on existing skills can be targeted anger can lead to generalised distress, interindividuals and teams. fere with functioning and be a risk factor For individuals, these strategies can for poor decision-making. In the context in with sleep. Sleep is a well-established of military units maintaining a heightened

dictor of positive psychological health level of readiness, tensions can run high, ectories in high-stress settings. Yet, as potentially impeding effective communivice members are mobilised, getting cation and relationships. Individuals can To Cite Adler AB, Forbes D, Ursano RL.BMJ Mil Health quate quality sleep can be especially use fieldable techniques to regulate their llenging. While guidance about sleep emotions, including emotion labelling, eds to be appropriate to the real-world temporal and personal distancing to put ironment of physical demands, shifting concerns into perspective, and brief in situ edules and underlying psychological cognitive-behavioural techniques to specif-

eats, the need for leaders to prioritise ically mitigate anger or other emotional ep as a critical item of 'refuelling' and difficulties. ep banking is important. Individual These strategies are consistent with welllience can also be strengthened by inte- known models of support in the context ting mental skills such as psychological of adversity, particularly the principles

of promoting calm and connectedness. nter for Military Psychiatry and Neuroscience. These principles have also been extended ter Reed Army Institute of Research, Silver Spring, rland, USA the COVID-19 pandemic, and represent enix Australia Centre for Posttraumatic Mental th, Department of Psychlatry, University of the cornerstone of cross-context adaptive ourne Carlton Victoria Australia mental healthcare. iter for the Study of Traumatic Stress, Uniformed Ensuring that key influencers delibices University of the Health Sciences, Bethesda, erately reinforce these stress-mitigating vland, USA strategies can enhance primary prevention

respondence to Dr Amy B Adler. Center for and the longer term trajectories of mental ary Psychiatry and Neuroscience, Waiter Reed Army health while enhancing military readiness tute of Research, Silver Spring 20910, MD, USA; These strategies can easily get lost amidst b.adler.ch/@mail.mli

Letter the magnitude of mission-critical tasks. If we attend to them, our present knowledge suggests that allied service member health

Collaborators, Elve Eves Mental Health Research and Innovation Collaboration (MHRIC) Contributors ABA planned and conducted the work, DF and RU provided critical edits, additional information and commentary. ABA is responsible for

and readiness will be better sustained

the overall content. Funding This study was funded by Military Operational Medicine Research Program (MO210077

Competing interests None declared. Patient consent for publication Not required Ethics approval Not applicable.

externally peer reviewed



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> Epub ahead of print: [please include Day Month Year]. doi:10.1136/bmjmilitary-2022-002136 Received 10 April 2022 Accepted 30 April 2022 BMJ Mil Health 2022:0:1 dol:10.1136/bmjmilitary-2022-002136

ORCID ID Amy B Adler http://orcid.org/0000-0002-0886-5530 REFERENCES Fitzwater JPI, Arthur CA, Hardy L, "The tough get tougher": Mental skills training with elite m menuits Sourt Even: Andrem Paychol 2018;7:93-107 to periods of prolonged stress, including 2 Crane MF, Forbes D, Lewis V, et al. The interplay between

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Adler AB. et al. BMJ Mil Health Month 2022 Vol 0 No 0

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Next Steps

- Creating novel solutions
- Field-based training
- Integrating concepts

patrol: skills



3-BY-3 GROUNDING

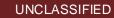
- 3 THINGS YOU CAN SEE
- 3 THINGS YOU CAN HEAR
- 3 THINGS YOU CAN FEEL PHYSICALLY





Thank You!





	Optimal readiness	Ready	Reacting	Strained	Combat ineffective
Mood	Self-aware Content Grateful Optimistic	Normal mood Stable Grounded Takes things in stride	Irritable/ impatient Nervous Sad Overwhelmed Touchy	Angry Anxiety Pervasive sadness Hopelessness	Out of control Strong anxiety Panic attacks Depressed or suicidal thoughts
State of mind	Performing consistently well Confident and realistic	Performing well Capacity for enjoyment In mental control	Displaced sarcasm Little enjoyment Forgetful/distracted	Negative attitude Poor performance Poor concentration	Overt insubordination Unable to perform duties or concentrate
Sleep	Maintaining good sleep habits Excellent sleep quality	Normal sleep pattern Little sleep difficulty	Restless sleep Bad dreams or nightmares	Restless/disturbed sleep Reccurent nightmares	Can't fall or stay asleep Sleeping too much or too little
Physical	Feeling healthy and fit Feeling flexible, strong, and energetic	Good energy and physical activity levels	Tense muscles Headaches Low physical energy	Increased aches and pains Increased fatigue	Significant pains Constant fatigue
Social connection	Building and maintaining strong and deep social connections	Good social connections Trusting relationships	Reduced social connections	Avoidance Withdrawal	Active rejection of social connections
Behavior	Using mental skills Active self-care	Little use of alcohol and other intoxicants	Increased substance use and/or gambling Recklessness	Uncontrolled substance use and/or gambling	Self harm Addiction Suicidal behavior

Adapted from: Road to Mental Readiness, Canadian Forces; US Marines; Danish Veteran's Center

