2011 Military Health System Conference

Research Advances in Building Resilience in Psychological Health, Suicide Prevention, and Effects of Deployments on Family Members

The Quadruple Aim: Learning & Growth, Readiness, Experience of Care COL Carl Castro







Military Operational Medicine Research Program

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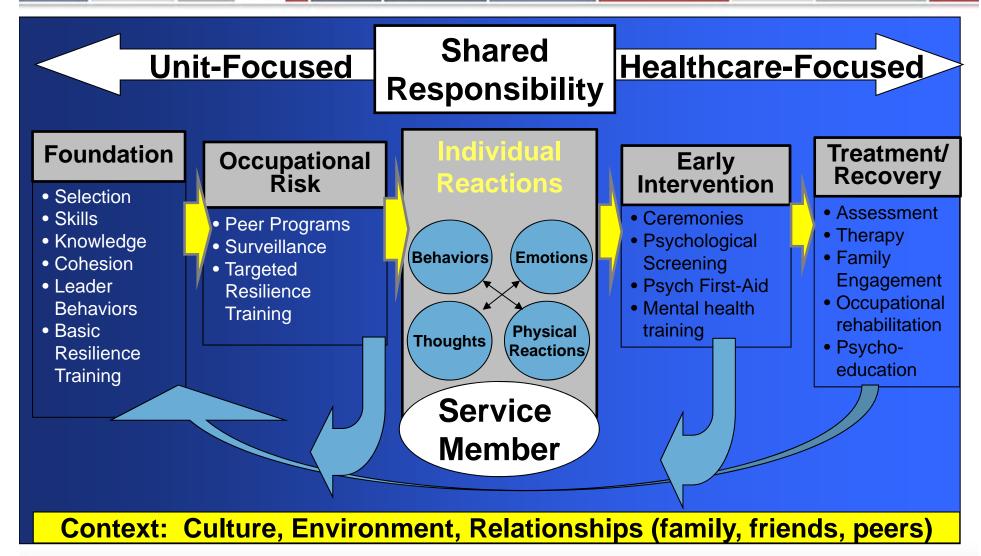
Problems/Threats



- Completed Soldier suicide rates have risen
- High op-tempo and multiple deployment demands
- Military families face unique life challenges
- Behavioral health problems
- Alcohol/substance abuse & risky behaviors
- Environmental and situational strains
- Measures of resilience are not well-established and have not been validated in military populations

Military Occupational Mental Health Model

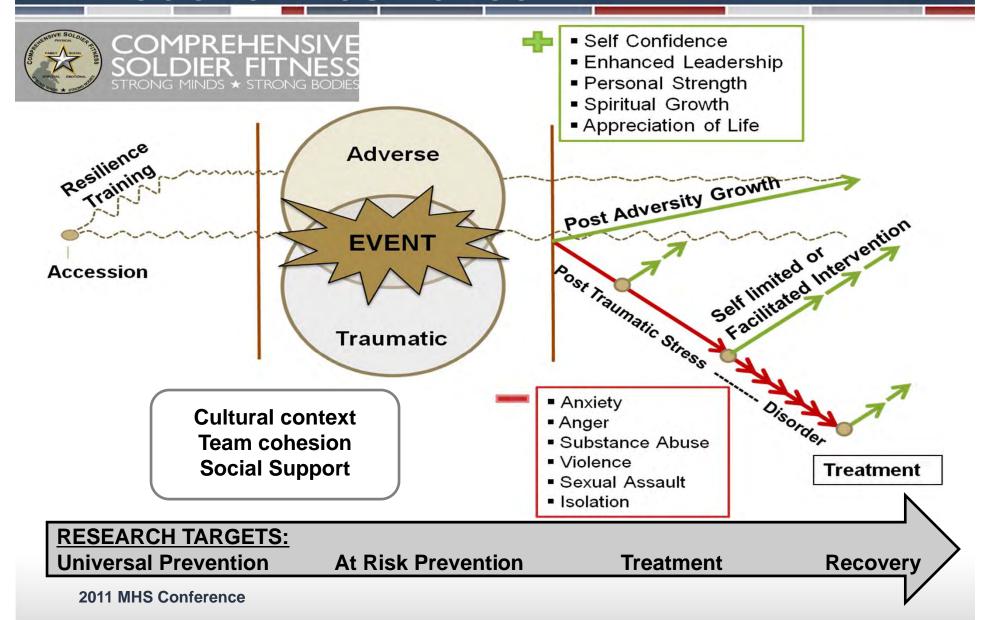




Source: The Technical Cooperation Panel 13

Comprehensive Soldier Fitness Model of Resilience





Mindfulness-Based Military Training in Army Infantry Platoons

Amishi Jha, PhD
University of Pennsylvania
\$1,000,000

Period of Performance: 48 months

Awarded: Feb 09

MILESTONES Months	0-12	13-24	25-36	37-48
Coordinate & deliver pre-				
deployment psychological				
health programs				
Data collection and				
analysis of pre-deployment			ļ	
programs (MMFT and PP)				
, ,				
and no intervention control				
Analyzo data and				
Analyze data and				
disseminate results				

Aims

- Compare & contrast efficacy of a 16-hour version of Mindfulness-based Mind Fitness Training (MMFT) to a 16-hour active (control) comparison intervention, focused on the tenets of positive psychology (PP) to examine mechanisms of action
- Recruit 3 US Army infantry platoons to participate, including a no-intervention control group

Approach

- A 4-year study of 120 Soldiers, 3 US Army infantry platoons of 40 Soldiers
- The 3 organic platoons will be matched and subjects will be tested pre- and post-training and post-deployment

Deliverables

 Knowledge that will guide best practices for noninvasive, long-term intervention methods to promote psychological resilience in military personnel

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Optimizing Delivery of Mindfulness Based Military Training

Amishi Jha, PhD
University of Pennsylvania
\$1,000,000

Period of Performance: 36 months

Awarded: Mar 09

Aims

- Compare & contrast 3 delivery vehicles of military Mindfulness-based Mind Fitness Training (MMFT) & determine components most critical for improving neural, cognitive, and affective functioning
- M24 (mindfulness training + didactic material about military application, stress, trauma and resilience
- M8-D (didactic content)
- •M8-MT (mindfulness skills, 24 or 8 hours)

MILESTONES	Months	0-12	13-24	25-36
Intervention plannir approval	ng &			
Data collection & ar	nalyses			
Analyze data and sy results	/nthesize			
Disseminate results	3			

Approach

 3-year study of US Army infantry platoons, comparing and contrasting the efficacy of three delivery vehicles of MMFT

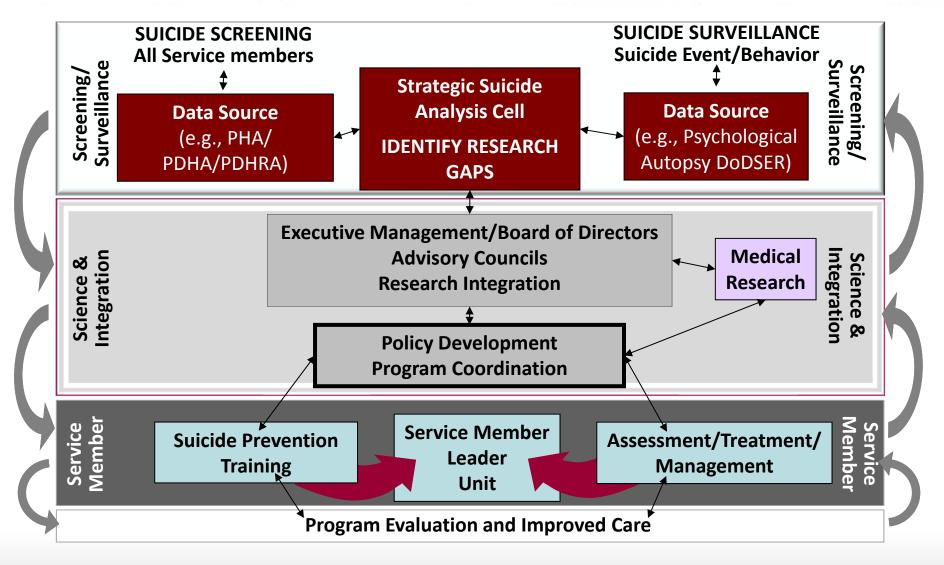
Deliverables

 Knowledge informing best practices for noninvasive, long-term intervention methods to promote psychological resilience in military personnel

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Evidence-Based Military Public Health Suicide Prevention Model





Military Suicide Research Integration and Coordination



Policy & Leadership

Office of the Secretary of the Army(OSA)/Office of the Vice Chief of Staff of the Army (OVCSA)

Intervention Studies

U.S. Army Medical Research and Material Command & Military Suicide Research Consortium (MSRC)

Integrated Integrating Product Team

Suicide Surveillance

U.S. Army Public Health Command (Provisional)

Identification of Risk & Protective Factors

Army Study to Assess Risk and Resilience in Service Members (Army STARRS)

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MRMC Suicide Research Projects (\$79M)

Principal Investigator	Organization	Proposal Title	Award	
Bob Ursano, MD	USUHS	Army Study to Assess Risk and Resilience in Service Members (Army STARRS)	\$50,000,000 60 months	
Mark Reger, PhD	Madigan Army Medical Center	The Association between Suicide and OEF/OIF Deployment History	\$1,961,003 36 months	
Marianne Goodman, PhD	James J Peters VAMC	High Risk Suicidal Behavior in Veterans- Assessment of Predictors and Efficacy of Dialectical Behavior Therapy	\$1,279,912 36 months	
Toby Cooper, BCPS	Darnell Army Medical Center	Drug Related Overdoses Among Military Personnel	\$282,040 18 months	
Marjan Holloway, PhD	USUHS	A Brief Intervention to Reduce Suicide Risk in Military Service Members and Veterans	\$2,666,717 36 months	
Marjan Holloway, Ph.D.	USUHS	Pilot Trial of Inpatient Cognitive Therapy for the Prevention of Suicide in Military Personnel With Acute Stress Disorder or PTSD	\$442,000 48 months	
Charles Hoge, MD	Walter Reed Army Institute of Research	Suicidal Ideation in the Combat Environment	\$65,000 24 months	
Thomas Joiner, PhD	Florida State University (FSU)	Optimizing Screening and Risk Assessment for Suicide Risk in the U.S. Military	\$753,159 36 months	
Tyler Smith, PhD	Naval Health Research Center	Mental Health Symptoms as a Determinant for Suicide Attempt and Completion	\$100,000 12 months	
Matthew Miller, MD	Harvard College	Antidepressants and the Risk of Self-harm and Unintentional Injury Among Younger Veterans	\$656,184 24 months	
David Rudd, PhD	Texas Tech University	Brief Cognitive Behavioral Therapy for Military Populations	\$1,967,035 36 months	
Peter Gutierrez, PhD	Denver VAMC	Blister Packaging Medication to Increase Treatment Adherence and Clinical Response: Impact on Suicide-related Morbidity & Mortality	\$1,173,408 36 months	
Thomas Joiner, PhD & Peter Gutierrez, PhD	FSU & Denver VAMC	Military Suicide Research Consortium	\$17,000,000 60 months	

A Brief Intervention to Reduce Suicide Risk in Military Service Members and Veterans

Marjan Holloway, PhD
Uniformed Services University of
the Health Sciences
\$2,666,717

Period of Performance: 36 months

Awarded: Sep 09

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- Evaluate written safety planning intervention efficacy on suicide ideation, related coping, and help seeking attitudes for hospitalized military personnel at high suicide risk
- Evaluate effectiveness of safety planning intervention on suicide attempts, ideation, attendance of outpatient mental health and substance abuse interventions, and suiciderelated coping for Veterans at high suicide risk in emergency department (ED) settings

MILESTONES	Months	0-12	13-24	25-36
Adapt and examing feasibility of SAFE				
Conduct RCT				
Data analyses				
Disseminate stud	y findings			

Approach

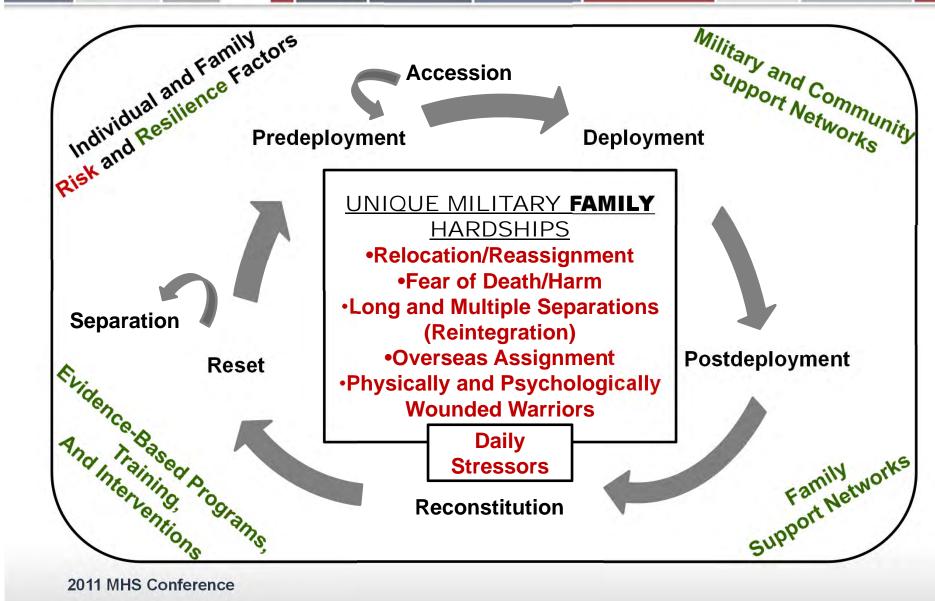
 Two separate but related projects will compare the study interventions with enhanced usual care conditions on suicide-related outcomes.
 Project 1 is a RCT, Project 2 is a quasiexperimental design

Deliverables

 Knowledge about efficacy of safety planning in reducing suicide ideation, related coping, and negative attitudes toward help seeking

Framework for Military Family Research





Reintegration: The Role of Spouse READI Telephone Support Groups

VAMC, Memphis \$1,073,000

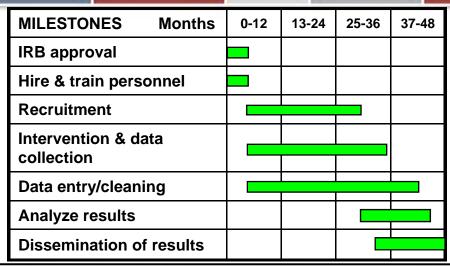
Period of Performance: 48 months

Awarded: Sep 09

Aims

- Develop post-deployment spouse Resilience Education and Deployment Information (READI) (formerly spouse Battlemind) telephone support groups to enhance spouse and service member resilience
- Determine participant satisfaction, adherence to therapeutic recommendations, and changes in spouse mental health with spouse telephone resilience training
- Incorporate lessons learned from pilot work

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Approach

- A randomized controlled trial of spouse READI; train telephone groups for 14 sessions over 7 months in resilience training, education groups, or usual care
- Outcome measures of depression, anxiety,
 Family functioning, and participant satisfaction at baseline, 7, and 12 months

Deliverables

 Manualized intervention to help spouses & facilitate reintegration of the returning Soldier

Summary/Conclusion



- All medical research conducted within DoD is threat based
- Research efforts are funded to support a research strategy, which is designed to solve the problems identified in the threat analysis
- Funded research is actively managed to ensure accountability, to maintain awareness of findings, and to ensure integration with other efforts
- Identified solutions are rapidly translated to the field.