

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)						February 2003				
BUDGET ACTIVITY 1 - Basic research			PE NUMBER AND TITLE 0601105A - Force Health Protection				PROJECT D52			
COST (In Thousands)			FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
D52	FORCE HEALTH PROTECTION		0	0	9847	9796	9948	10657	10814	11034
<p><u>A. Mission Description and Budget Item Justification:</u> Force Health Protection Research seeks to enhance protection of Service members against health threats in military deployments both by increasing our understanding of military health issues and by applying findings from a decade of research on the etiology (cause and origin of disease) and treatment of Gulf War Illnesses (GWI). This program is conducted in close coordination with the Department of Veterans Affairs. The program is divided into 5 thrust areas: (1) global health monitoring, (2) health behavior interventions, (3) health risk communication, (4) health risk assessment methods, and (5) medical materiel safety. The US Army Research Institute of Environmental Medicine, a subordinate element of Army Medical Research and Materiel Command, conducts research under this project. Additional contributors include Naval Health Research Center, San Diego, California, University of Michigan, Ann Arbor, Michigan and University of Texas, Southwestern Medical Center, Dallas, Texas. The cited work is consistent with the Army Science and Technology Master Plan, the Army Modernization Plan, and supports the Objective transition path of the Transformation Campaign Plan.</p> <p>There are no Defense Emergency Response Funds provided to this program or project.</p>										
<u>Accomplishments/Planned Program</u>						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
FY04, conduct second survey of the Millennium Cohort Study, similar to the classic Framingham heart study, as well as study predictors that lead to "chronic multisymptom illness." This illness encompasses both psychological and physiological symptoms. FY05, revise Recruit Assessment Profile survey instrument to include the most valid predictors of wellness and warfighter resilience.						0	0	2000	2000	
FY04, evaluate 12-month follow up results for recruit smoking cessation study. FY05, validate research findings linking the condition described as "chronic multisymptom illness" with specific functional neuroimaging-based neurochemical changes in soldiers.						0	0	2500	2500	
FY04, explore relationship between physical activity and prevention or treatment of the chronic condition described as "chronic multisymptom illness." FY05, evaluate effectiveness of current and state-of-the-art programs for weight management in the military environment.						0	0	2000	2000	

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1 - Basic research

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<u>Accomplishments/Planned Program (continued)</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
FY04, demonstrate likely mechanisms of interaction of chemicals used for medical prophylaxis (treatment/disease prevention) in deployments (e.g., DEET, permethrin, pyridostigmine bromide) on the basis of key enzyme systems responsible for metabolism of toxic chemicals. Additionally, evaluate the association between squalene antibodies and chronic multi-symptom illnesses based on pre- and post-deployment studies. FY05, explore the feasibility of improved rapid assessments of local infectious threats based on medical entomology (insect) studies. Determine the effects of stress on blood-brain barrier and the ability of drugs to unexpectedly reach the brain.	0	0	3347	3296
Totals	0	0	9847	9796

<u>B. Program Change Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Previous President's Budget	0	0	0	0
Current Budget (FY 2004/2005 PB)	0	0	9847	9796
Total Adjustments	0	0	9847	9796
Congressional program reductions				
Congressional rescissions				
Congressional increases				
Reprogrammings				
SBIR/STTR Transfer				
Adjustments to Budget Years			9847	9796

Significant Changes:

FY04 - PE was devolved from OSD to Army; funds Gulf War Illnesses research.