

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	336.741	71.510	68.171	-	68.171	65.647	69.795	72.971	72.302	Continuing	Continuing
810: IND BASE ID VACC&DRUG	19.748	18.185	18.646	-	18.646	18.820	20.674	19.910	18.342	Continuing	Continuing
840: COMBAT INJURY MGMT	42.272	44.004	38.659	-	38.659	34.079	35.463	36.729	37.141	Continuing	Continuing
945: BREAST CANCER STAMP PROCEEDS	1.005	-	-	-	-	-	-	-	-	Continuing	Continuing
97B: BLOOD SAFETY	2.388	-	-	-	-	-	-	-	-	Continuing	Continuing
97D: CENTER FOR AGING EYE	2.387	-	-	-	-	-	-	-	-	Continuing	Continuing
FH4: FORCE HEALTH PROTECTION - ADV TECH DEV	1.885	1.974	1.542	-	1.542	1.672	1.761	1.776	1.806	Continuing	Continuing
MB1: ADV DIAGNOSTICS & THERAPEUTIC DIG TECH	1.593	-	-	-	-	-	-	-	-	Continuing	Continuing
MB3: CENTER FOR INTEGRATION OF MEDICINE & INNOV TECH	8.953	-	-	-	-	-	-	-	-	Continuing	Continuing
MG5: NATIONAL FUNCTIONAL GENOMICS CENTER (CA)	5.968	-	-	-	-	-	-	-	-	Continuing	Continuing
MI4: ALLIANCE FOR NANOHEALTH (CA)	3.979	-	-	-	-	-	-	-	-	Continuing	Continuing
MJ2: FIBRINOGEN BANDAGES FOR BATTLEFIELD WOUNDS (CA)	2.388	-	-	-	-	-	-	-	-	Continuing	Continuing
MK8: PLASMA STERILIZER (CA)	2.387	-	-	-	-	-	-	-	-	Continuing	Continuing
ML3: SOLDIER-MOUNTED EYE-TRACKING & CONTROL SYSTEM (CA)	3.482	-	-	-	-	-	-	-	-	Continuing	Continuing
MM2: MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)	231.980	-	-	-	-	-	-	-	-	Continuing	Continuing

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY							
MM3: WARFIGHTER MEDICAL PROTECTION & PERFORMANCE STDS	6.326	7.347	9.324	-	9.324	11.076	11.897	14.556	15.013	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element (PE) supports maturation and demonstration of advanced medical technologies including drugs, vaccines, medical devices, and diagnostics and developing medical practices and procedures to effectively protect and improve the survivability of US Forces across the entire spectrum of military operations. Tri-Service coordination and cooperative efforts are focused in four principal medical areas: Combat Casualty Care, Military Operational Medicine, Militarily Relevant Infectious Diseases, and Clinical and Rehabilitative Medicine.

Promising medical technologies are refined and validated through extensive testing, which is closely monitored by the US Food and Drug Administration (FDA) and Environmental Protection Agency (EPA), as part of their processes for licensing new medical products. The FDA requires medical products to undergo extensive preclinical testing in animals and/or other models to obtain preliminary efficacy and toxicity information, before they can be tested in humans (clinical trials). Clinical trials are conducted in three phases, starting with Phase 1, to prove the safety of a drug, vaccine, or device for the targeted disease or medical condition in a small number of healthy volunteers. Each successive phase includes larger numbers of human subjects and requires FDA cognizance prior to proceeding. Work conducted in this PE primarily focuses on late stages of technology maturation activities required to conduct Phase 2 human expanded safety and efficacy clinical trials. Some high risk technologies may require additional maturation with FDA guidance prior to initiating these clinical trials. Such things as proof of product stability and purity are necessary to meet FDA standards before entering later stages of testing and prior to transitioning into a formal acquisition program and conducting Phase 3 pivotal trials for licensure. Activities in the PE may include completion of preclinical animal studies and Phase 2 clinical studies involving human volunteers according to the FDA and EPA requirements.

Blast research efforts in this PE are fully coordinated with the United States Army Natick Soldier Research, Development and Engineering Center. This coordination enables improved body armor design and rations for Soldiers. Additionally, the activities funded in this PE are externally peer reviewed and fully coordinated with all Services as well as other agencies through the Joint Technology Coordinating Groups of the Armed Services Biomedical Research Evaluation and Management (ASBREM) Committee. The ASBREM Committee serves to facilitate coordination and prevent unnecessary duplication of effort within DoD's biomedical research and development community, as well as their associated enabling research areas.

Work funded in this project PE is fully coordinated with efforts undertaken in PE 0602787A.

The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.

Work in this PE is performed by Walter Reed Army Institute of Research, Silver Spring, MD; US Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD; US Army Research Institute of Environmental Medicine, Natick, MA; US Army Institute of Surgical Research, Fort Sam Houston, TX; US Army Aeromedical

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army	DATE: February 2011
---	----------------------------

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>
---	---

Research Laboratory, Fort Rucker, AL; the Naval Medical Research Center, Silver Spring, MD; US Army Dental Trauma Research Detachment, Fort Sam Houston, TX; US Army Center for Environmental Health Research and the Armed Forces Institute of Regenerative Medicine, Fort Detrick, MD.

B. Program Change Summary (\$ in Millions)	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	339.752	71.510	63.808	-	63.808
Current President's Budget	336.741	71.510	68.171	-	68.171
Total Adjustments	-3.011	-	4.363	-	4.363
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-0.685	-			
• SBIR/STTR Transfer	-2.326	-			
• Adjustments to Budget Years	-	-	4.363	-	4.363

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY				PROJECT 810: IND BASE ID VACC&DRUG			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
810: IND BASE ID VACC&DRUG	19.748	18.185	18.646	-	18.646	18.820	20.674	19.910	18.342	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project matures and demonstrates US Food and Drug Administration (FDA) regulated medical countermeasures such as drugs, vaccines, and diagnostic systems to naturally occurring infectious diseases that are threats to US military deployed forces. The focus of the program is on prevention, diagnosis, and treatment of diseases that can adversely impact military mobilization, deployment, and operational effectiveness. Prior to licensure of a new drug or vaccine to treat or prevent disease, the FDA requires testing in human subjects. Studies are conducted stepwise: first to prove the product is safe in humans, second to demonstrate the desired effectiveness and optimal dosage in a small study, and third to demonstrate effectiveness in large, diverse human populations. All test results are submitted to the FDA for evaluation to ultimately obtain approval (licensure) for medical use. This project supports studies for safety and effectiveness testing on small study groups after which they transition to the next phase of development for completion of studies in larger populations. The project also supports testing of personal protective measures that can reduce disease transmission from biting insects and other vectors to include products such as repellents and insecticides which are regulated by the U. S. Environmental Protection Agency (EPA).

Research conducted in this project focuses on the following five areas:

- (1) Drugs to Prevent/Treat Parasitic (symbiotic relationship between two organisms) Diseases
- (2) Vaccines for Preventing Malaria
- (3) Bacterial Threats
- (4) Viral Threats
- (5) Diagnostics and Disease Transmission Control

Research is conducted in compliance with FDA regulations for medical products for human use and EPA-regulations for insect control products that impact humans or the environment (e.g., repellents and insecticides).

Work is managed by the Walter Reed Institute of Research (WRAIR), US Army Medical Institute of Infectious Disease (USAMRIID), and coordinated with Naval Medical Research Center (NMRC). The Army is responsible for programming and funding all DoD naturally occurring infectious disease research requirements, thereby precluding duplication of effort within the Military Departments.

Promising medical countermeasures identified in this project are further matured under PE 0603807A, project 808.

The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)		R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY	PROJECT 810: IND BASE ID VACC&DRUG		
Work in this project is performed by the Walter Reed Army Institute of Research, Silver Spring, MD, and its overseas laboratories; the US Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD; and the Naval Medical Research Center, Silver Spring, MD, and its overseas laboratories.					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Title: Drugs to Prevent/Treat Parasitic Diseases			3.872	3.089	2.335
Description: This effort selects promising malaria and leishmaniasis (a disease transmitted by sand flies) drug candidates for testing in human subjects, and prepares data packages required for FDA approval of testing in humans and conduct testing. Studies have shown that the malaria parasite can become resistant to existing drugs, which makes it necessary to continually research new and more effective treatments.					
FY 2010 Accomplishments: Expanded Malarone testing in an increased number of humans with positive results, and continued studies with a Chloroquine-tinidazole combination drug for prevention of malaria.					
FY 2011 Plans: Based on selection of promising candidates in previous year, expand testing in humans of treatment options for malaria and leishmaniasis. Work with commercial manufacturer to change the dosing and subsequent labeling of Malarone for other malaria treatment indications.					
FY 2012 Plans: Will initiate safety and effectiveness studies in human volunteers on the most promising candidate identified from preclinical studies.					
Title: Vaccines for Prevention of Malaria			3.823	3.824	4.905
Description: This effort selects candidate vaccines for various types of malaria including the severe form of malaria (Plasmodium falciparum) and the less severe but relapsing form (Plasmodium vivax) and prepares technical data packages required for FDA approval of testing in humans. Conduct testing of promising malaria vaccine candidates in human subjects. A malaria vaccine would minimize the progression and impact of drug resistance and poor Warfighter compliance with taking preventive anti-malarial drugs.					
FY 2010 Accomplishments: Partnered with industry to conduct initial safety and small-scale effectiveness testing in humans of a new Plasmodium falciparum malaria vaccine candidate; forwarded promising candidate vaccines for further testing in larger populations where malaria occurs naturally, such as Africa; initiated Plasmodium vivax malaria candidate vaccine testing in humans pending FDA approval.					
FY 2011 Plans:					

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT 810: <i>IND BASE ID VACC&DRUG</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Conduct studies to determine optimal dosing schedule of new Plasmodium falciparum malaria vaccine candidate, and plan for safety and effectiveness tests in larger populations in endemic areas; down-select best and most effective vaccine candidates, for further development; will assess effectiveness of Plasmodium vivax malaria candidate vaccines in humans. FY 2012 Plans: Will formulate new candidate vaccines against Plasmodium falciparum and Plasmodium vivax malaria as well as test them in uninfected adults for safety, immunogenicity (ability to produce an immune response), and effectiveness; will further test the most promising vaccine candidates in adults and children in larger test populations where malaria occurs naturally; will transfer vaccine candidate to the advanced development program.					
Title: Bacterial Threats Description: This effort selects promising candidate vaccines against each of the three main bacterial causes of diarrhea (E. coli, Campylobacter and Shigella; a significant threat during initial deployments) and meningococcal vaccine candidates (a threat to trainees, deployed troops and military families) for testing in human subjects. Prepare data packages required for FDA approval and conduct testing in human subjects. FY 2010 Accomplishments: Conducted testing of a Shigella component (Invaplex) candidate vaccine on an expanded population, began safety and effectiveness trial of a live attenuated Shigella vaccine; began E. coli vaccine candidate safety and effectiveness testing in humans; prepared the meningococcal Group B multicomponent vaccine for testing in humans in conjunction with partners. FY 2011 Plans: Continue safety and effectiveness trials of Invaplex and live attenuated Shigella vaccine; continue safety and effectiveness trial to establish most promising E. coli vaccine; undertake a safety study in humans of the meningococcal Group B multicomponent vaccine. FY 2012 Plans: Will conduct human trials of live attenuated Shigella vaccine and E. coli vaccine to determine their effectiveness. Will complete transfer of meningococcal vaccine technology to commercial partner.			6.375	5.122	7.623
Title: Viral Threats Research Description: This effort selects most promising vaccine candidates for evaluation in human subjects against dengue fever (a severe debilitating disease caused by a virus and transmitted by a mosquito) and hantavirus (severe viral infection that causes internal bleeding and is contracted from close contact with rodents). Conduct FDA-required nonclinical safety and protection			3.492	3.086	1.825

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>	PROJECT 810: <i>IND BASE ID VACC&DRUG</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
<p>testing (laboratory-based) in animals, prepare FDA investigational new drug technical data packages and conduct clinical testing of candidate vaccines in humans.</p> <p>FY 2010 Accomplishments: Conducted testing in humans of the hantavirus vaccine on an expanded population; down-select to most safe and effective dengue vaccine candidate based on expanded population studies (120 volunteers).</p> <p>FY 2011 Plans: Further develop the hantavirus vaccine with support of a commercial partner; conduct testing in humans for safety and effectiveness of the final dengue vaccine candidate.</p> <p>FY 2012 Plans: Will further develop the hantavirus vaccine with support of a commercial partner to include evaluation of vaccine delivery methods to improve effectiveness and safety; will transition to advanced development program.</p>			
<p>Title: Diagnostics and Disease Transmission Control</p> <p>Description: This effort conducts human subject testing of FDA-regulated field medical diagnostic devices and EPA-approved measures to control insect-borne pathogens and diseases such as Q Fever (sand fly fever), Japanese encephalitis, Rickettsial disease (carried by ticks, fleas, and lice) and other pathogens transmitted by arthropods (animals without a backbone with segmented bodies and jointed limbs, such as a scorpion, crab, or centipede).</p> <p>FY 2010 Accomplishments: Tested a new repellent and began evaluation of field-deployable tests to detect infectious organisms within insects that cause Q-fever and dengue fever. For diagnostics, validated results of testing for leishmaniasis, dengue fever and Rickettsial disease devices. Modified the leishmaniasis infection hospital-based diagnostic test technology to be compatible with Joint Biological Agent Identification Diagnostic System (JBAIDS) platform.</p> <p>FY 2011 Plans: Transition new repellent to advanced development; evaluate a field device to detect the dengue virus in mosquitoes in conjunction with commercial partner; assist commercial partners in fielding of FDA-approved point-of-care tests for dengue fever and leishmaniasis.</p> <p>FY 2012 Plans: Will complete the evaluation of repellent products; Will assist the commercial partners in fielding FDA-approved rapid human diagnostics (point-of-care tests) for Q-fever; will evaluate a field detection device to detect Japanese encephalitis and other</p>		2.186	3.064
		1.958	

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>	PROJECT 810: <i>IND BASE ID VACC&DRUG</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
pathogens transmitted by arthropods (animals without a backbone with segmented bodies and jointed limbs, such as a scorpion, crab, or centipede) in collaboration with commercial partner.			
Accomplishments/Planned Programs Subtotals		19.748	18.185
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy N/A			
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY				PROJECT 840: COMBAT INJURY MGMT			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
840: COMBAT INJURY MGMT	42.272	44.004	38.659	-	38.659	34.079	35.463	36.729	37.141	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project matures, demonstrates, and validates promising medical technologies and methods to include control of severe bleeding, treatment for traumatic brain injury (TBI), revival and stabilization of trauma patients, and prognostics and diagnostics for life support systems. Post-evacuation medical research focuses on continued care and rehabilitative medicine for extremity (arms and legs), facial/maxillary (jaw bone), and ocular (eye) trauma and leveraging recent innovations in regenerative medicine and tissue engineering techniques.

Research conducted in this project focuses on the following five areas:

- (1) Damage Control Resuscitation
- (2) Combat Trauma Therapies
- (3) Combat Critical Care Engineering
- (4) Clinical and Rehabilitative Medicine
- (5) Traumatic Brain Injury

All research is conducted in compliance with US Food and Drug Administration (FDA) requirements for licensure of medical products for human use.

Promising efforts identified through applied research conducted under PE 0602787A, project 874, are further matured under this project. Promising results identified under this project 840 are further matured under PE 0603807A, project 836.

The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.

Work in this project is performed by the US Army Institute of Surgical Research (USAISR), Fort Sam Houston, TX; the Walter Reed Army Institute of Research (WRAIR), Silver Spring, MD; and the Armed Forces Institute of Regenerative Medicine (AFIRM), Fort Detrick, MD.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011	FY 2012
Title: Damage Control Resuscitation	13.089	14.776	11.527
Description: This effort supports work required to validate safety and effectiveness of drugs and medical procedures to maintain metabolism and minimize harmful inflammation after major trauma. Efforts focus on blocking complement activation (a series of			

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT 840: <i>COMBAT INJURY MGMT</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<p>disease fighting proteins and their reactions in the body) from damaging healthy cells of the body and preventing or minimizing secondary organ failure (including brain and spinal cord injury).</p> <p>FY 2010 Accomplishments: Began safety and effectiveness evaluation in humans of freeze-dried plasma and platelet products to control severe bleeding; conducted additional studies in larger animals to identify optimal timing, dose and mechanisms of action of plasma, clotting factors and complement inhibitors (CIs) (normal physiological responses to trauma) in combination.</p> <p>FY 2011 Plans: Begin human evaluation of blood substitutes and noninvasive interventions for internal bleeding; evaluate guidelines for combined use of plasma, clotting factors and CIs using a representative, large animal model to potentially change clinical resuscitation guidelines.</p> <p>FY 2012 Plans: Will initiate limited clinical studies of coagulation factor and platelet function in burn patients; will conduct studies of acute coagulopathy (clotting or bleeding disorder) of traumatic shock; will evaluate currently available blood products in a large animal (pig) model.</p>					
<p>Title: Combat Trauma Therapies</p> <p>Description: This effort focuses on work required to validate safety and effectiveness of drugs, biologics (products derived from living organisms), and medical procedures intended to minimize immediate and long-term effects from battlefield injuries. This effort includes neuroprotective research - funding in this area is transitioned to Traumatic Brain Injury in FY12.</p> <p>FY 2010 Accomplishments: Completed initial FDA safety studies in humans of a candidate neuroprotective drug and a diagnostic device for brain trauma; refocused dental disease research to facial restorative surgery; began research in eye trauma to evaluate current repair treatment for improvement and evaluated new alternatives as they were identified; expanded existing in-house capability for human safety and effectiveness testing on newly identified treatments and therapies for battlefield trauma.</p> <p>FY 2011 Plans: Begin the next study of the candidate neuroprotective drug for FDA approval (effectiveness); begin animal studies of an anti-seizure mixture of multiple drugs in combination and studies of silent brain seizures after traumatic brain injury (TBI); develop a mandibular (jaw) defect model; continue evaluation of pain management regimens to improve long-term outcomes; use a small</p>			12.592	16.750	3.558

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY	PROJECT 840: COMBAT INJURY MGMT		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
animal model to down-select therapeutics for blast-induced TBI; continue in-house human clinical trials of promising treatments and therapies for battlefield trauma. FY 2012 Plans: Will continue studies in wound healing, as well as skin, muscle, and bone repair. Will transition skin and muscle work to more relevant animal models and continue in-house human trials. Beginning in FY12, work in neuroprotection research is transitioned to Traumatic Brain Injury.				
Title: Traumatic Brain Injury Description: This effort supports work required to validate safety and effectiveness of drugs, biologics (products derived from living organisms), and medical procedures intended to minimize immediate and long-term effects from penetrating brain injuries. This research area starts in FY12. FY 2012 Plans: Will complete the FDA effectiveness study of the candidate neuroprotective drug for treatment of TBI and will complete the pivotal trial for a bench-top assay for use in hospitals using candidate biomarkers for the detection of TBI; will transition to advanced development; Will continue development of a smaller, deployable diagnostic device for brain trauma as well as a hand held version; will evaluate progesterone (steroid hormone) and nitrite as therapeutic interventions for blast injury.		-	-	4.273
Title: Combat Critical Care Engineering Description: This effort supports diagnostic and therapeutic medical devices, algorithms, software, and data-processing systems for resuscitation, stabilization, and life support; this research area started in FY10. FY 2010 Accomplishments: Completed FDA safety study of fluid resuscitation algorithms; submitted FDA technical data package for the fully-integrated and automated fluid resuscitation system; collaborated with manufacturers to integrate oxygen and ventilation systems; transitioned stroke volume algorithm to advanced development for integration with new monitors for triage decision support; conducted studies for development of a model (algorithm) for early indication of circulatory collapse from severe blood loss. FY 2011 Plans: Complete evidence-based decision support development for early indicators of reduction in blood volume, the need for intervention, and closed-loop care during casualty transport. Continue to support simulation development to reduce reliance on live tissues in training. FY 2012 Plans:		5.807	3.287	3.056

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT 840: <i>COMBAT INJURY MGMT</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
Will begin collection of continuous waveform data (output from vital signs monitors) in burn and trauma patients with blood loss to refine algorithm; will evaluate commercially-viable measurement systems and novel remote triage devices (both wear-and-forget and stand-off devices) for effectiveness and specificity to blood loss.					
Title: Clinical and Rehabilitative Medicine Description: This effort supports clinical studies of treatment of ocular and visual system traumatic injury, as well as restoration of function and appearance by regenerating skin, muscle, and bone tissue in battle-injured casualties. Areas of interest for regenerative medicine include healing without scarring, repair of compartment syndrome (muscle and nerve damage following reduced blood flow due to swelling), replacement skin, and facial reconstruction. FY 2010 Accomplishments: Conducted regenerative medicine studies using human subjects to demonstrate stable engraftment and restoration of sensory-motor function of transplanted limbs and facial skin, fat transfer therapy to manage burn scarring, implantation of engineered cartilage ear transplants, and use of a strain-reducing dressing to reduce wound scarring. FY 2011 Plans: Conduct studies using relevant large animals to evaluate the most promising treatments for repairing traumatic eye injuries; conclude FY10 clinical trials; begin studies of skin cells or tissue from patient engineered and transplanted back into the patient as a replacement for burned tissue. FY 2012 Plans: Will conduct preclinical studies on novel drug delivery, diagnostic and/or tissue repair strategies for eye injury, as well as initial clinical studies of vision rehabilitation strategies; will conduct preclinical and initial clinical studies of strategies for maxillofacial reconstruction, including wound healing control and tissue engineering/regeneration techniques, to restore facial features; will begin a pilot clinical trial of a drug that reduces the spread of burn damage; will finish preclinical research on engineered implants; will start a pilot clinical trial on bone regeneration using scaffold and stem cell technologies; and will continue an ongoing clinical trial in muscle regeneration.			10.784	9.191	10.920
Title: Under Body Blast Injury Assessment Description: This effort supports research to enable the Live-Fire Test and Evaluation (LFT&E) community to conduct realistic survivability testing of ground-combat vehicles subjected to under-body blast (UBB) threats, with a primary emphasis on assessing potential occupant casualties, as well as to enable the development and testing of improved occupant protection systems. UBB creates injurious forces on occupants of ground-combat vehicles that are more violent and that act in directions not normally encountered in civilian automotive accidents. Injury prediction tools that were developed to assess occupant safety in			-	-	5.325

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>	PROJECT 840: <i>COMBAT INJURY MGMT</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
<p>automobile crashes are not adequate for assessing occupant survivability in ground-combat vehicles exposed to UBB threats. Accurately predicting the spectrum of injuries caused by UBB forces in live-fire tests of ground-combat vehicles presents a unique challenge for the DoD. An UBB medical research program is being initiated to understand the human tolerance limits and injury mechanisms needed to accurately predict injuries to ground-combat vehicle occupants caused by UBB events.</p> <p><i>FY 2012 Plans:</i> Will initiate research to develop biomedically-valid UBB human tolerance limits and injury prediction tools for supporting the development of DoD blast injury prevention standards for survivability assessments and protection systems development; will accelerate development and integration of human tolerance limits and injury prediction tools to enhance the LFT&E community's ability to accurately assess ground-combat vehicle occupant survivability in UBB events.</p>			
Accomplishments/Planned Programs Subtotals		42.272	44.004
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.			

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT 945: <i>BREAST CANCER STAMP PROCEEDS</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
945: <i>BREAST CANCER STAMP PROCEEDS</i>	1.005	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification
 This project receives funds as proceeds from the sale of Breast Cancer Stamps.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012
<i>Title:</i> Breast Cancer Stamp Proceeds	1.005	-	-
<i>Description:</i> This is a Congressional Interest Item.			
<i>FY 2010 Accomplishments:</i> Breast Cancer Stamp Proceeds			
Accomplishments/Planned Programs Subtotals	1.005	-	-

C. Other Program Funding Summary (\$ in Millions)
 N/A

D. Acquisition Strategy
 N/A

E. Performance Metrics
 Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT 97B: <i>BLOOD SAFETY</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
97B: <i>BLOOD SAFETY</i>	2.388	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification
Congressional Interest Item funding for Blood Safety advanced technology development.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012
<i>Title:</i> Blood Safety and Decontamination Technology	2.388	-	-
<i>Description:</i> This is a Congressional Interest Item.			
<i>FY 2010 Accomplishments:</i> Blood Safety and Decontamination Technology			
Accomplishments/Planned Programs Subtotals	2.388	-	-

C. Other Program Funding Summary (\$ in Millions)
N/A

D. Acquisition Strategy
N/A

E. Performance Metrics
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT 97D: <i>CENTER FOR AGING EYE</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
97D: <i>CENTER FOR AGING EYE</i>	2.387	-	-	-	-	-	-	-	-	Continuing	Continuing
A. Mission Description and Budget Item Justification Congressional Interest Item funding for Low Vision research.											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Military Low Vision Research Description: This is a Congressional Interest Item. FY 2010 Accomplishments: Military Low Vision Research								2.387	-	-	
Accomplishments/Planned Programs Subtotals								2.387	-	-	
C. Other Program Funding Summary (\$ in Millions) N/A											
D. Acquisition Strategy N/A											
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT FH4: <i>FORCE HEALTH PROTECTION - ADV TECH DEV</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
FH4: <i>FORCE HEALTH PROTECTION - ADV TECH DEV</i>	1.885	1.974	1.542	-	1.542	1.672	1.761	1.776	1.806	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>This project matures, demonstrates, and supports enhanced Force Health Protection of Soldiers against threats in military operations and training. Health-monitoring tools are matured to rapidly identify deployment stressors that affect the health of Joint Forces. These databases and systems enhance the Department of Defense's (DoD's) ability to monitor and protect against adverse changes in health, especially mental health effects caused by changes in brain function. Force Health Protection work is conducted in close coordination with the Department of Veterans Affairs. The program is maturing the development of global health monitoring (e.g., development of neuropsychological evaluation methodologies), validating clinical signs and symptoms correlating to medical records, diagnosed diseases, and mortality rates. The key databases supporting this program are the Millennium Cohort Study and the Total Army Injury and Health Outcomes Database. These databases allow for the examination of interactions of psychological stress and other deployment and occupational stressors that affect Warfighter health behaviors.</p> <p>This project contains no duplication with any effort within the Military Departments and includes direct participation by other Services.</p> <p>The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.</p> <p>Work in this project is performed by the US Army Center for Environmental Health Research (USACEHR), Fort Detrick, MD, the US Army Research Institute of Environmental Medicine (USARIEM), Natick, MA, and the Naval Health Research Center (NHRC), San Diego, CA.</p>											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Health Research								1.885	1.974	1.542	
Description: This effort supports validation of interventions developed from the Millennium Cohort study (a prospective health project in military service members designed to evaluate the long-term health effects of military service, including deployments), validation of biomarkers of exposure, methods to detect environmental contamination and toxic exposure, and validation of thoracic injury prediction models of blast exposure.											
FY 2010 Accomplishments: Validated thoracic blunt trauma and performance decrement models by comparing with data obtained from large animal exercise studies; conducted data analysis to correlate relationships in Post-Traumatic Stress Disorder (PTSD), depression, and anxiety symptoms among Millennium Cohort participants in conjunction with increased mental and physical health problems; validated											

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>	PROJECT FH4: <i>FORCE HEALTH PROTECTION - ADV TECH DEV</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
prototype Environmental Sentinel Biomonitor (ESB) system for use with field drinking water production systems and transitioned to advanced development. <i>FY 2011 Plans:</i> Transition thoracic blast injury models and an integrated software version for combined blunt trauma and toxic gas inhalation to Army Research Laboratory Survivability, Lethality Assessment Division (Soldier Survivability Assessment Program) and to the Public Health Command (Health Hazard Assessment Program); conduct a systematic validation of prospective data to correlate relationships in PTSD and depression with suicide. <i>FY 2012 Plans:</i> Will validate potential intervention strategies for reduction of mental health symptoms and factors associated with suicide, with a goal to reduce the suicide rate; will validate sensor components to include whole-body acceleration (tertiary blast injury) and headform acceleration (traumatic brain injury).			
Accomplishments/Planned Programs Subtotals		1.885	1.974
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT MB1: <i>ADV DIAGNOSTICS & THERAPEUTIC DIG TECH</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MB1: <i>ADV DIAGNOSTICS & THERAPEUTIC DIG TECH</i>	1.593	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification
 Congressional Interest Item funding for Advanced Diagnostic and Therapeutic Digital Technologies development.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012
<i>Title:</i> Advanced Diagnostic and Therapeutic Digital Technologies	1.593	-	-
<i>Description:</i> This is a Congressional Interest Item.			
<i>FY 2010 Accomplishments:</i> Advanced Diagnostic and Therapeutic Digital Technologies			
Accomplishments/Planned Programs Subtotals	1.593	-	-

C. Other Program Funding Summary (\$ in Millions)
 N/A

D. Acquisition Strategy
 N/A

E. Performance Metrics
 Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT MB3: <i>CENTER FOR INTEGRATION OF MEDICINE & INNOV TECH</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MB3: <i>CENTER FOR INTEGRATION OF MEDICINE & INNOV TECH</i>	8.953	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification
 Congressional Interest Item funding for the Center for the Integration of Medicine and Innovative Technology.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012
<i>Title:</i> Center for the Integration of Medicine and Innovative Technology (CIMIT) research	8.953	-	-
<i>Description:</i> This is a Congressional Interest item.			
<i>FY 2010 Accomplishments:</i> Center for the Integration of Medicine and Innovative Technology (CIMIT) research			
Accomplishments/Planned Programs Subtotals	8.953	-	-

C. Other Program Funding Summary (\$ in Millions)
 N/A

D. Acquisition Strategy
 N/A

E. Performance Metrics
 Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT MG5: <i>NATIONAL FUNCTIONAL GENOMICS CENTER (CA)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MG5: <i>NATIONAL FUNCTIONAL GENOMICS CENTER (CA)</i>	5.968	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification
Congressional Interest Item funding for Functional Genomics.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012
<i>Title:</i> National Functional Genomics Center	5.968	-	-
<i>Description:</i> This is a Congressional Interest Item.			
<i>FY 2010 Accomplishments:</i> National Functional Genomics Center			
Accomplishments/Planned Programs Subtotals	5.968	-	-

C. Other Program Funding Summary (\$ in Millions)
N/A

D. Acquisition Strategy
N/A

E. Performance Metrics
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT MI4: <i>ALLIANCE FOR NANOHEALTH (CA)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MI4: <i>ALLIANCE FOR NANOHEALTH (CA)</i>	3.979	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification
Congressional Interest Item funding for the Alliance for NanoHealth.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012
<i>Title:</i> Alliance for NanoHealth	3.979	-	-
<i>Description:</i> This is a Congressional Interest Item.			
<i>FY 2010 Accomplishments:</i> Alliance for NanoHealth			
Accomplishments/Planned Programs Subtotals	3.979	-	-

C. Other Program Funding Summary (\$ in Millions)
N/A

D. Acquisition Strategy
N/A

E. Performance Metrics
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT MJ2: <i>FIBRINOGEN BANDAGES FOR BATTLEFIELD WOUNDS (CA)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MJ2: <i>FIBRINOGEN BANDAGES FOR BATTLEFIELD WOUNDS (CA)</i>	2.388	-	-	-	-	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification
 Congressional Interest Item funding for Fibrin Adhesive Stat (FAST) Dressing technology development.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2010	FY 2011	FY 2012
<i>Title:</i> Fibrin Adhesive Stat (FAST) Dressing <i>Description:</i> This is a Congressional Interest Item. <i>FY 2010 Accomplishments:</i> Fibrin Adhesive Stat (FAST) Dressing	2.388	-	-
Accomplishments/Planned Programs Subtotals	2.388	-	-

C. Other Program Funding Summary (\$ in Millions)
 N/A

D. Acquisition Strategy
 N/A

E. Performance Metrics
 Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT MK8: <i>PLASMA STERILIZER (CA)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MK8: <i>PLASMA STERILIZER (CA)</i>	2.387	-	-	-	-	-	-	-	-	Continuing	Continuing
A. Mission Description and Budget Item Justification Congressional Interest Item funding for Plasma Sterilizer advanced technology development.											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Plasma Sterilizer Description: This is a Congressional Interest Item. FY 2010 Accomplishments: Plasma Sterilizer								2.387	-	-	
Accomplishments/Planned Programs Subtotals								2.387	-	-	
C. Other Program Funding Summary (\$ in Millions) N/A											
D. Acquisition Strategy N/A											
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>				R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>				PROJECT ML3: <i>SOLDIER-MOUNTED EYE-TRACKING & CONTROL SYSTEM (CA)</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
ML3: <i>SOLDIER-MOUNTED EYE-TRACKING & CONTROL SYSTEM (CA)</i>	3.482	-	-	-	-	-	-	-	-	Continuing	Continuing
A. Mission Description and Budget Item Justification Congressional Interest Item funding for Biosensor Communicator and Controller System advanced technology development.											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Biosensor Communicator and Controller System Description: This is a Congressional Interest Item. FY 2010 Accomplishments: Biosensor Communicator and Controller System								3.482	-	-	
Accomplishments/Planned Programs Subtotals								3.482	-	-	
C. Other Program Funding Summary (\$ in Millions) N/A											
D. Acquisition Strategy N/A											
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY				PROJECT MM2: MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MM2: MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)	231.980	-	-	-	-	-	-	-	-	Continuing	Continuing
A. Mission Description and Budget Item Justification Congressional Interest Item funding for Medical Advanced Technology Initiatives.											
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2010	FY 2011	FY 2012
Title: Cellular Therapy for Battlefield Medical Care. Description: Funding is provided for the following effort FY 2010 Accomplishments: This is a Congressional Interest Item.									2.785	-	-
Title: Center for Genetic Origins of Cancer. Description: Funding is provided for the following effort FY 2010 Accomplishments: This is a Congressional Interest Item.									1.990	-	-
Title: Combat Wound Initiative at Walter Reed Army Medical Center. Description: Funding is provided for the following effort FY 2010 Accomplishments: This is a Congressional Interest Item.									2.387	-	-
Title: Human Genomics, Molecular Epidemiology and Clinical Diagnostics for Infectious Diseases. Description: Funding is provided for the following effort FY 2010 Accomplishments: This is a Congressional Interest Item.									1.194	-	-
Title: Medical Surveillance Initiative-Clinical Looking Glass. Description: Funding is provided for the following effort									1.194	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> National Oncogenomics and Molecular Imaging Center. <i>Description:</i> Funding is provided for the following effort			4.735	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Neuroimaging & Neuropsychiatric Trauma in US Warfighters. <i>Description:</i> Funding is provided for the following effort			6.217	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Telepharmacy Robotic Medicine Device Unit. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Institute for the Advancement of Bloodless Medicine. <i>Description:</i> Funding is provided for the following effort			1.485	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> National Biodefense Training. <i>Description:</i> Funding is provided for the following effort			4.974	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Rugged Electronic Textile Vital Signs Monitoring. <i>Description:</i> Funding is provided for the following effort			2.387	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Trauma Care, Research and Training. <i>Description:</i> Funding is provided for the following effort			2.387	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Maine Institute for Human Genetics. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Institute for Regenerative Medicine. <i>Description:</i> Funding is provided for the following effort			3.183	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> National Center of Ophthalmology Training and Education al Wills Eye Health System. <i>Description:</i> Funding is provided for the following effort			2.387	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Rural Health - CERMUSA. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Spinal Muscular Atrophy (SMA) Research Program. <i>Description:</i> Funding is provided for the following effort			2.984	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Advanced Lower Limb Prosthesis for Battlefield Amputees. <i>Description:</i> Funding is provided for the following effort			3.183	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Advanced Restoration Therapies in Spinal Cord Injuries. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Prader-Willi Syndrome (PWS) Research. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Remote Bio-Medical Detector. <i>Description:</i> Funding is provided for the following effort			2.785	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Advanced Regenerative Medicine Therapies for Combat Injuries. <i>Description:</i> Funding is provided for the following effort			3.183	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Chronic Tinnitus Treatment Program. <i>Description:</i> Funding is provided for the following effort			0.796	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Bioelectrics Research for Casualty Care and Management. <i>Description:</i> Funding is provided for the following effort			1.194	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Advanced Medical Multi-Missions and CASEVAC Roles. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Brain Interventional-Surgical Hybrid Initiative. <i>Description:</i> Funding is provided for the following effort			2.387	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> 101st Airborne Injury Prevention & Performance Enhancement Research Initiative. <i>Description:</i> Funding is provided for the following effort			2.984	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Blood, Medical & Food Safety Via Eco-Friendly Wireless Sensing. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> International Heart Institute/U.S. Army Vascular Graft Research Project. <i>Description:</i> Funding is provided for the following effort			1.592	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Military Burn Trauma Research Program. <i>Description:</i> Funding is provided for the following effort			4.477	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Military Nutrition Research: Personnel Readiness and Warfighter Performance. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Staph Vaccine. <i>Description:</i> Funding is provided for the following effort			6.367	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Linear Accelerator Cancer Research. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Midwest Traumatic Injury Rehabilitation Center. <i>Description:</i> Funding is provided for the following effort			1.162	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Oncology Group Pediatric Cancer Research (CH). <i>Description:</i> Funding is provided for the following effort			1.592	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Strattice Dermal Matrix Research. <i>Description:</i> Funding is provided for the following effort			1.990	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Battlefield Nursing Program. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Medical Errors Reduction Initiative. <i>Description:</i> Funding is provided for the following effort			1.990	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Personal Status Monitor (Nightengale). <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Advanced Cancer Genome Institute. <i>Description:</i> Funding is provided for the following effort			1.989	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Advanced Military Wound Healing Research and Treatment. <i>Description:</i> Funding is provided for the following effort			0.796	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> ALS Therapy Development for Gulf War Research. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Anti-Microbial Bone Graft Product. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Antioxidant Micronutrient Therapeutic Countermeasures. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Automated Portable Field System f/Rapid Detection & Diagnosis of Endemic Diseases & Other Pathogens. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Battlefield Related Injury Translational Research Strategies. <i>Description:</i> Funding is provided for the following effort			1.791	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Bio-Printing of Skin for Battlefield Burn Repairs. <i>Description:</i> Funding is provided for the following effort			1.990	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Bio-Surveillance in a Highly Mobile Population. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Blood and Bone Marrow Collection Fellowship. <i>Description:</i> Funding is provided for the following effort			1.990	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Brain Safety Net. <i>Description:</i> Funding is provided for the following effort			2.387	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Breast Cancer Medical Information Network Decision Support. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Center for Cancer Immunology Research. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Center of Excellence in Infectious Diseases and Human Microbiome. <i>Description:</i> Funding is provided for the following effort			2.387	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Clinical Development of a Norovirus Gastroenteritis Vaccine. <i>Description:</i> Funding is provided for the following effort			3.581	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Clinical Technology Integration for Military Health. <i>Description:</i> Funding is provided for the following effort			1.591	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Collagen-Based Wound Dressing. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Cooperative International Neuromuscular Research. <i>Description:</i> Funding is provided for the following effort			3.263	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Countermeasures to Hemorrhaging (Liquid Bandage and Tissue Rengeneration). <i>Description:</i> Funding is provided for the following effort			5.730	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Customized Nursing Programs for Fort Benning. <i>Description:</i> Funding is provided for the following effort			1.592	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Enhancing Wound Healing, Tissue Regeneration, and Biomarker Discovery. <i>Description:</i> Funding is provided for the following effort			1.990	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Exceptional Family Transition (EFTT) for Soldiers, Sailors, Marines, and Airmen. <i>Description:</i> Funding is provided for the following effort			0.637	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Health Disparaties in Troop Readiness. <i>Description:</i> Funding is provided for the following effort			7.958	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Highly Functional Neurally Controlled Skeletally Attached and Intelligent Prosthetic Devises. <i>Description:</i> Funding is provided for the following effort			3.024	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Identification of Pain Mechanisms and Therapeutic Targets. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Imaging and Cognitive Evaluation of Soldiers. <i>Description:</i> Funding is provided for the following effort			0.637	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Infection Prevention Program for Battlefield Wounds. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Infectious and Airborne Pathogen Reduction. <i>Description:</i> Funding is provided for the following effort			2.228	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> In-field Body Temperature Conditioner. <i>Description:</i> Funding is provided for the following effort			2.386	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Institute for Simulation and Interprofessional Studies. <i>Description:</i> Funding is provided for the following effort			4.615	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Integrated Patient Electronic Record System. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Intelligent Orthopedic Fracture Implant Program. <i>Description:</i> Funding is provided for the following effort			0.796	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Malaria Vaccine Development. <i>Description:</i> Funding is provided for the following effort			3.978	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Marty Driesler Lung Cancer Project. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Mass Casualty First Responders Disaster Surge Technology Program. <i>Description:</i> Funding is provided for the following effort			2.387	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Medical Biosurveillance and Efficiency Program. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Microencapsulation and Vaccine Delivery Research. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Military Drug Management System. <i>Description:</i> Funding is provided for the following effort			2.387	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Military Medical Decontamination System. <i>Description:</i> Funding is provided for the following effort			4.477	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Military Mental Health Initiative. <i>Description:</i> Funding is provided for the following effort			0.597	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Military Pediatric Training and Support. <i>Description:</i> Funding is provided for the following effort			3.979	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Mission Hospital Computerized Physician Order Entry. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Mobile Aerosol Monitoring for the Department of Defense. <i>Description:</i> Funding is provided for the following effort			1.194	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Mobile Integrated Diagnostic and Data Analysis System (MIDDAS). <i>Description:</i> Funding is provided for the following effort			1.592	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Multi-Dose Closed Loop pH Monitoring System for Platelets. <i>Description:</i> Funding is provided for the following effort			1.591	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Multiplexed Human Fungal Infection Diagnostic. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Musculoskeletal Interdisciplinary Research Initiative. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> NAU-TGen North Dangerous Pathogens DNA Forensics Center Upgrades. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Near Infrared Spectroscopy Military Personnel Assessment. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Neural Control of External Devices. <i>Description:</i> Funding is provided for the following effort			1.990	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Nicholson center for Surgical Advancement Medical Robotics and Simulation. <i>Description:</i> Funding is provided for the following effort			4.178	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Nurse Education Center of Excellence for Remote and Medically Underserved Populations (CERMUSA). <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Nursing Teaching and Leadership Program. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Operation Re-Entry NC. <i>Description:</i> Funding is provided for the following effort			2.387	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Parsons Institute for Information Mapping. <i>Description:</i> Funding is provided for the following effort			1.194	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Pride Center for America's Wounded Veterans. <i>Description:</i> Funding is provided for the following effort			1.592	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Rapid Burn Wound Therapies. <i>Description:</i> Funding is provided for the following effort			1.989	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Regenerative Medicine to Address Acute Hearing Loss. <i>Description:</i> Funding is provided for the following effort			2.386	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Sensor Tape Physiological Monitoring. <i>Description:</i> Funding is provided for the following effort			1.990	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Silicon Nanomaterial for Battlefield Medical Devices. <i>Description:</i> Funding is provided for the following effort			2.787	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Smart Wound Dressing for MRSA-Infected Battle Wounds. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Stress Disorders Research Initiative at Fort Hood. <i>Description:</i> Funding is provided for the following effort			2.387	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Techniques to Manage Noncompressible Hemorrhage Following Combat Injury. <i>Description:</i> Funding is provided for the following effort			1.990	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Testing of Microneedle Device for Multiple Applications. <i>Description:</i> Funding is provided for the following effort			0.955	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Translational Research for Muscular Dystrophy. <i>Description:</i> Funding is provided for the following effort			1.592	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Transportable Renal Replacement Therapy for Battlefield Applications. <i>Description:</i> Funding is provided for the following effort			0.796	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Trauma Response Simulation Training. <i>Description:</i> Funding is provided for the following effort			1.194	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Treatment of Battlefield Spinal Cord and Burn Injuries. <i>Description:</i> Funding is provided for the following effort			0.359	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>		PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Vanadium Safety Readiness. <i>Description:</i> Funding is provided for the following effort			3.342	-	-
<i>FY 2010 Accomplishments:</i> This is a Congressional Interest Item.					
<i>Title:</i> Human Organ and Tissue Preservation Technology <i>Description:</i> This is a Congressional Interest Item.			1.592	-	-
<i>FY 2010 Accomplishments:</i> Human Organ and Tissue Preservation Technology					
<i>Title:</i> Battlefield Exercise and Combat Related Spinal Cord Injury Research <i>Description:</i> This is a Congressional Interest Item.			2.387	-	-
<i>FY 2010 Accomplishments:</i> Battlefield Exercise and Combat Related Spinal Cord Injury Research					
<i>Title:</i> High Performance Computing in Biomedical Engineering and Health Sciences <i>Description:</i> This is a Congressional Interest Item.			1.194	-	-
<i>FY 2010 Accomplishments:</i> High Performance Computing in Biomedical Engineering and Health Sciences					
<i>Title:</i> Fighting Combat-related Fatigue Syndrome <i>Description:</i> This is a Congressional Interest Item.			0.796	-	-
<i>FY 2010 Accomplishments:</i> Fighting Combat-related Fatigue Syndrome					
Accomplishments/Planned Programs Subtotals			231.980	-	-

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>	PROJECT MM2: <i>MEDICAL ADVANCE TECHNOLOGY INITIATIVES (CA)</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy N/A		
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY				PROJECT MM3: WARFIGHTER MEDICAL PROTECTION & PERFORMANCE STDS			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
MM3: WARFIGHTER MEDICAL PROTECTION & PERFORMANCE STDS	6.326	7.347	9.324	-	9.324	11.076	11.897	14.556	15.013	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>This project supports the Medical and Survivability technology areas of the future force with laboratory validation studies and field demonstrations of biomedical products designed to protect, sustain, and enhance Soldier performance in the face of a myriad of environmental, physiological stressors, and materiel hazards encountered in training and operational environments. This effort focuses on demonstrating and transitioning technologies as well as validated tools associated with biomechanical-based health risks, injury assessment and prediction, Soldier survivability, and performance during continuous operations. The three main thrust areas are (1) Physiological Health and Environmental Protection, (2) Injury Prevention and Reduction, and (3) Psychological Health and Resilience.</p> <p>This project contains no duplication with any effort within the Military Departments, and includes direct participation by other Services.</p> <p>The cited work is consistent with the Director, Defense Research and Engineering Strategic Plan, the Army Modernization Strategy, and the Army Science and Technology Master Plan.</p> <p>Work in this project is performed by the US Army Research Institute of Environmental Medicine (USARIEM), Natick, MA, and the US Army Aeromedical Research Laboratory (USAARL), Fort Rucker, AL.</p>											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Physiological Health and Environmental Protection (Sleep Research/Environmental Monitoring)								2.109	2.608	1.603	
Description: This effort supports development of laboratory products, interventions, and decision aids for the validation of physiological status and prediction of Soldier performance in extreme environments.											
FY 2010 Accomplishments: Transitioned heat strain decision aid to the United States Army Ranger School which will provide a more comprehensive risk assessment tool for heat-related injury in the training environment; refined sensor technologies for prediction of heat injuries; refined computational model for predicting performance affected by chronic sleep restriction in the operational environment.											
FY 2011 Plans:											

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603002A: MEDICAL ADVANCED TECHNOLOGY	PROJECT MM3: WARFIGHTER MEDICAL PROTECTION & PERFORMANCE STDS		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
Validate the next generation of individual physiological sensors for the prediction of heat injuries in training environments; perform advanced evaluations of a computational model for predicting performance affected by chronic sleep restriction in the operational environment. FY 2012 Plans: Complete field studies of the heat strain decision-aid with the US Army Ranger School to reduce the risk of heat injuries during training; validate a computational model for predicting performance affected by chronic sleep restriction in the operational environment.				
Title: Environmental Health and Protection - Physiological Awareness Tools and Warrior Sustainment in Extreme Environments Description: This effort supports development of non-invasive technologies, decision-aid tools, and models to enhance Warrior protection and sustainment across the operational spectrum. FY 2012 Plans: Will validate and transition non-invasive hydration assessment sensors to the advanced development program.		-	-	1.544
Title: Injury Prevention and Reduction (Physical Performance Enhancement) Description: This effort supports validation of injury prediction tools for brain, spine, and thoracic injury from blast, blunt, and ballistic impact. FY 2010 Accomplishments: Field evaluated loading assessment system for the prediction of spinal injury; validated thoracic blunt trauma and performance decrement models by comparing with data obtained from large animal exercise studies; validated a battery of Soldier performance evaluations based on common Soldiering tasks. FY 2011 Plans: Validate safe, rapid assessment criteria for spinal injury risk prediction; complete validation of facial fracture dose-response models and injury risk functions using an instrumented headform; transition integrated software version for combined blunt trauma and toxic gas inhalation; refine analysis tools which can use non- or minimally-invasive techniques to detect bone injury. FY 2012 Plans: Will validate software that accounts for the effects of clothing and body armor on the body following blast; will validate software to estimate lung, heart, and rib injury from blunt trauma due to debris impact (secondary blast injury); will validate the effectiveness of selected elements of neurosensory performance assessment batteries.		3.320	3.345	3.598
Title: Psychological Health and Resilience		0.897	1.394	2.579

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603002A: <i>MEDICAL ADVANCED TECHNOLOGY</i>	PROJECT MM3: <i>WARFIGHTER MEDICAL PROTECTION & PERFORMANCE STDS</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
<p>Description: This effort supports validation of neurocognitive assessment and brain injury detection methods. Validate tools and preclinical methods to treat Post-Traumatic Stress Disorder in a military population.</p> <p>FY 2010 Accomplishments: Conducted field study to determine the extent to which baseline psychological and neurological functioning impacts resilience and sensitivity to concussion.</p> <p>FY 2011 Plans: Validate utility of neurocognitive measures for tracking and monitoring recovery rate after concussion; validate rodent Post-Traumatic Stress Disorder model using current treatment methods.</p> <p>FY 2012 Plans: Will determine effectiveness of various treatment modalities (e.g., occupational therapy, counseling, etc.); will validate screening/scoring guidelines for revisions to the Post-Deployment Health Assessment and the Post-Deployment Health Reassessment.</p>			
Accomplishments/Planned Programs Subtotals		6.326	7.347
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy N/A			
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.			

UNCLASSIFIED