Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Defense Health Program

APPROPRIATION/BUDGET ACTIVITY

0130: Defense Health Program

BA 2: *RDT&E* 

R-1 ITEM NOMENCLATURE

PE 0604110HP: Medical Products Support and Advanced Concept Development

DATE: March 2013

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	_	191.536	144.403	132.430	-	132.430	146.610	116.973	133.255	139.115	Continuing	Continuing
374A: GDF-Medical Products Support and Advanced Concept Development	-	159.890	144.403	132.430	-	132.430	146.610	116.973	133.255	139.115	Continuing	Continuing
400Z: CSI - Congressional Special Interests	-	27.750	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
434A: AF-Medical Products Support and Advanced Concept Development	-	3.896	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## A. Mission Description and Budget Item Justification

Guidance for Development of the Force (GDF) - Medical Products Support And Advanced Concept Development: funding is for product support and advanced concept development of medical products that are regulated by the US Food and Drug Administration (FDA); the accelerated transition of FDA-licensed and unregulated products and medical practice guidelines to the military operational user, through clinical and field validation studies; prototyping, risk reduction and product transition efforts for medical information technology applications; and medical training systems' technologies.

The resulting advanced development portfolio is designed to address the following: areas of interest to the Secretary of Defense regarding Wounded Warriors, capabilities identified through the Joint Capabilities Integration and Development System and the strategy and initiatives described in the Quadrennial Defense Review. Program development and execution is peer-reviewed and fully coordinated with all of the Military Services, appropriate Defense Agencies or Activities and other federal agencies, to include the Department of Veterans Affairs, the Department of Health and Human Services, and the Department of Homeland Security. This coordination occurs through the planning and execution activities of the Joint Program Committees, established for the Defense Health Program Research, Development, Test and Evaluation funding. Research supported by this program element includes accelerated transition of medical training and health information sciences, to include efforts at the Pacific Based Joint Information Technology Center, advanced development of rapid pathogen detection in fresh whole blood, field assessment of intervention tools for post traumatic stress disorder (PTSD), and clinical trials on biomarkers for traumatic brain injury (TBI) and spinal cord injury, combat casualty care advanced product development and rehabilitative medicine clinical trials.

The Army Medical Command received DHP Congressional Special Interest (CSI) research funding focused on Peer-Reviewed Traumatic Brain Injury and Psychological Health Research, and Peer-Reviewed Joint Warfighter Medical Research. Because of the CSI annual structure, out-year funding is not programmed.

PE 0604110HP: Medical Products Support and Advanced Concept

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Defense Health Program

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Defense Health Program

DATE: March 2013

APPROPRIATION/BUDGET ACTIVITY

0130: Defense Health Program

BA 2: RDT&E

**R-1 ITEM NOMENCLATURE** 

PE 0604110HP: Medical Products Support and Advanced Concept Development

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	
Previous President's Budget	189.844	144.403	132.430	-	132.430	
Current President's Budget	191.536	144.403	132.430	-	132.430	
Total Adjustments	1.692	0.000	0.000	=	0.000	
<ul> <li>Congressional General Reductions</li> </ul>	-	-				
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-				
<ul> <li>Congressional Rescissions</li> </ul>	-	-				
Congressional Adds	-	-				
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-				
Reprogrammings	-	-				
SBIR/STTR Transfer	-2.308	-				
<ul> <li>Reprogramming - Rapid Product Integration</li> </ul>	4.000	-	-	-	-	
and Transition (AF)						

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 400Z: CSI - Congressional Special Interests

Congressional Add: 427A - Traumatic Brain Injury/ Psychological Health

Congressional Add: 441A - Joint Warfighter Medical Research Program

	FY 2012	FY 2013
	17.750	-
	10.000	-
Congressional Add Subtotals for Project: 400Z	27.750	0.000
Congressional Add Totals for all Projects	27.750	0.000

## **Change Summary Explanation**

FY 2012: Restore FY 2013 President's Budget decrease to Congressional Special Interest from DHP RDT&E PE 0605502-Small Business Innovation Research (SBIR) Program (-\$0.694 million) to DHP RDT&E, PE 0604110- Medical Products Support and Advanced Concept Development (+\$0.694 million).

Realignment from DHP RDT&E, PE 0604110-Medical Products Support and Advanced Concept Development (-\$3.002 million) to DHP RDT&E PE 0605502-Small Business Innovation Research (SBIR) Program (+\$3.002 million).

Prior Approval Reprogramming (FY 12-18 PA) from DHP O&M, Budget Activity Group: Private Sector Care (-\$4.000 million) to DHP RDT&E, PE 0604110-Medical Products Support and Advanced Concept Development (+\$4.000 million) for Rapid Product Integration and Transition (AF).

FY 2013: No Change

PE 0604110HP: Medical Products Support and Advanced Concept

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Defense Health Pro	ogram	DATE: March 2013
APPROPRIATION/BUDGET ACTIVITY 0130: Defense Health Program BA 2: RDT&E	R-1 ITEM NOMENCLATURE PE 0604110HP: Medical Products Support and Advance	ed Concept Development
FY 2014: No Change		

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Defense Health Program

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Health Program								DATE: March 2013				
APPROPRIATION/BUDGET ACT 0130: Defense Health Program BA 2: RDT&E	ΓΙVΙΤΥ				PE 060411		ATURE cal Products ot Developn			-Medical P	roducts Sup evelopment	
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
374A: GDF-Medical Products Support and Advanced Concept Development	-	159.890	144.403	132.430	-	132.430	146.610	116.973	133.255	139.115	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### A. Mission Description and Budget Item Justification

Guidance for Development of the Force (GDF)-Medical Products Support and Advanced Concept Development: Advanced development efforts are intended to support clinical trials of promising technologies that may provide solutions for the most pressing medical needs of the Warfighter, acceleration of the transition of those technologies to the operators in the field, and promulgation of new, evidence-based approaches to the practice of medicine as clinical practice guidelines. Research will be conducted in four specific areas: trials for accelerated transition of modeling and simulation technology for medical training/education/treatment; trials for accelerated transition of medical technology, practice guidelines, and standards; advanced component development of medical products; and medical information technology development. Within the research areas of health informatics, research efforts will include force health protection and readiness, medical resourcing, healthcare services, and enterprise information management. Future efforts will provide long term efficiencies by defining processes to grow and improve the electronic healthcare record and other medical related systems, and to implement new trends and advancements in technology. The efforts will help improve healthcare access, availability, continuity, cost effectiveness, and quality. Initial candidates will be selected from those funded by other medical research sponsors in the Department, and from external sources such as academia and industry, including efforts funded with prior year Congressional special interest funding. Research supported by this program element includes medical simulation and training, health informatics, advanced development of rapid pathogen detection in fresh whole blood, field assessment of intervention tools for PTSD, and clinical trials on biomarkers for TBI and spinal cord injury, combat casualty care advanced product development and rehabilitative medicine clinical trials.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: GDF – Medical Product Support and Advanced Concept Development	159.890	144.403	132.430
<b>Description:</b> Product support and advanced concept development of medical products that are regulated by the US Food and Drug Administration (FDA); the accelerated transition of FDA-licensed and unregulated products and medical practice guidelines to the military operational user, through clinical and field validation studies; prototyping, risk reduction and product transition effor medical information technology applications; and medical training systems' technologies.	ts		
FY 2012 Accomplishments:  Medical training and health information sciences (MTHIS) research has identified multiple prototypes and strategic project areas that support force health protection & readiness, medical resourcing, healthcare services, and enterprise infrastructure management. Defined processes to develop and integrate capabilities into the Defense Medical Research and Development			

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Defense Health Program

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Hea	alth Program		DATE:	March 2013				
APPROPRIATION/BUDGET ACTIVITY 0130: Defense Health Program BA 2: RDT&E	R-1 ITEM NOMENCLATURE PE 0604110HP: Medical Products Support and Advanced Concept Development		ROJECT 4A: GDF-Medical Products Support Vanced Concept Development					
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2012	FY 2013	FY 2014			
Program through projects to improve healthcare access, availability supported efforts to study military healthcare provider skill degradat practice (i.e., deployment) with the goal to reestablish provider spectareas such as open source physiology research platforms and virtual Medical Education Initiative. These efforts enable simulation technology in the comparative research between using live-tissue versus researching technology based training flow processes to improve currents.	ion following prolonged absence from their usual specialty skills as soon as possible. Research in cross-functial characters are underway through the Developer Tools blogies to be used by a much broader group and promote to Casualty Training Consortium are beginning to identify simulation system training. The Medical Practice Initiative	ty onal for e						
Effective in FY12, the Pacific Joint Information Technology Center (accomplishments include continuing the following programs/projects Theater Blood Management and Integration (3 phase project), Standarchitecture, Pacific JITC Innovation Center Services and the new Nand Response prototype. High priority, critical Warfighter requirement committees (Theater Functional Work Group and Force Health Protothe priority assigned to potential projects.	s: MSAT, Web-based Equipment Resources and Trainin dardization of Legacy MHS platforms to the new EHR National Integrated Catastrophic Health Event Preparednents were processed though the validation and prioritizati	ess						
The military infectious diseases research focused on the developme in the area of rapid screening of fresh whole blood. The product wil to Human Immunodeficiency Virus (HIV), Hepatitis C Virus (HCV) at and Hepatitis B Surface Antigen(HBsAg), which meets the requirem forces for Transfusion Transmitted Diseases (TTDs) in emergency be available). The Materiel Development Decision was approved in the designation) is anticipated in FY13-FY14.	I be a multiplexed test device for the detection of antibod nd Hepatitis B Virus (HBV) Core Antigen (Anti-HBc total) nent for FDA-cleared tests for prescreening deployed mili- plood collection operations (no currently FDA-licensed test	y tary sts						
Military operational medicine efforts initiated clinical trials for data as women's post-deployment intervention designed to address family recontrol the effects of PTSD; conduct field assessments of the long-tof PTSD; and bio-feedback therapy for the treatment of heart-rate vertices integration of physiologic status monitoring capability into Spartan Stroice messaging capabilities that allows for constant monitoring of the field operations. Clinical trials were initiated to determine if an antion weapons training; study the neurobiological mechanism (genetics, but the state of the s	re-integration coping skills; optimum interventions to mitiguerm effects of non-pharmacological therapy for the treatrariability as an intervention for PTSD. Also initiated was Sensor Network (SPARNET) system to demonstrate 2-washe physiological status of Soldiers across the spectrum oxidant can protect against noise-induced hearing loss du	gate or nent an by						

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Health Progr	ram		DATE:	March 2013	
APPROPRIATION/BUDGET ACTIVITY 0130: Defense Health Program	R-1 ITEM NOMENCLATURE PE 0604110HP: Medical Products Support	PROJECT		al Products Su	unnart and
BA 2: RDT&E	and Advanced Concept Development			t Developmen	
B. Accomplishments/Planned Programs (\$ in Millions)			<b>Y 2012</b>	FY 2013	FY 2014
Operation Iraqi Freedom (OEF/OIF) veterans; develop an online mental heal	th assessment tool; and evaluate the effectivene		1 2012	F1 2013	F1 2014
web-based interventions to reduce alcohol use and associated problems with					
Combat casualty care research further developed spray-dried plasma. Clinic initiated. Advanced development was initiated on a device that uses smooth system that kills infectious organisms in whole blood, and a clinical trial for a goggles in the treatment of severe trauma were also conducted.	-pursuit eye tracking to diagnose concussions, a				
Clinical and rehabilitative medicine conducted clinical trials through the Arme repair, scarless wound healing to improve appearance, mobility and function, of bone repair devices and biological materials. A program announcement w Areas of interest included strategies for promoting tissue repair, regenerative and toes) injury, and scarless wound healing; novel pharmaceuticals and devand strategies for restoring and rehabilitating vision loss, hearing loss and ba	, facial reconstruction, nerve repair, developmentas released for pilot and early phase clinical trial and reconstruction for burns, limb, and digit (find vices for the management of acute and chronic parts.)	it ils. igers			
FY 2013 Plans: For medical training and health information sciences, the combat casualty training of simulation systems to minimize live tissue usage. Initial funding for the additure peripherals may attach and communicate will be solicited in an announcentinue follow up funding for efforts currently underway.	vanced modular manikin core technology for wh	ich			
MTHIS and Pacific JITC coordinate with the functional end-users (Warfighter initiatives critical to the Warfighter. Additionally, MTHIS and Pacific JITC are way-ahead offices of the Department of Defense Military Health System and collaboration/coordination with the new Development and Test Center in Rich Research Center Test Lab. Pacific JITC also maintains the test and evaluating Center) for testing and integration of departmental/Warfighter projects in the	working with the Integrated Electronic Health R Veteran's Affairs for requirements identification amond and Telemedicine and Advanced Technolon lab (Independent Verification and Validation	ecord and			
Military infectious disease research efforts are field testing diagnostic capabil and continue multiyear efforts for the development of FDA cleared tests to be Transfusion Transmitted Diseases (TTDs) in emergency blood collection ope Fresh Whole Blood.	e used in prescreening deployed military forces to				

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Defense Health Program

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Health Progra	am		DATE:	March 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJEC	T		
0130: Defense Health Program	PE 0604110HP: Medical Products Support	374A: G	DF-Medica	l Products Si	upport and
BA 2: RDT&E	and Advanced Concept Development	Advance	d Concept	Developmer	nt
B. Accomplishments/Planned Programs (\$ in Millions)		i	Y 2012	FY 2013	FY 2014
Military operational medicine efforts are determining a time-course for antioxid noise to provide Warfighters with the best method to prevent hearing loss. Eff alerting capabilities of the Spartan Sensor Network (SPARNET) system; contifor deployment-related PTSD, evaluating the efficacy of prolonged exposure the (antidepressants) for OEF/OIF veterans with PTSD, conducting focus groups tool, and evaluating factors that may mediate or moderate responses to brief it problems.	forts are enhancing medical monitoring and nuing clinical trials for improved pharmacothera herapy plus sertraline or hydrocortisone to evaluate an online mental health assessmer	apy			
Combat casualty care is continuing development efforts initiated in FY11 and plasma, smooth-pursuit eye tracking to diagnose concussions, a system that k using infrared goggles in the treatment of severe trauma, clinical trials on the p drug to treat concussions.	kills infectious organisms in whole blood, studie	s			
Clinical and rehabilitative medicine is advancing the clinical studies initiated in medicine, and sensory system restoration and rehabilitation after traumatic inj areas of regenerative medicine and sensory system restoration and rehabilitation and clinical evaluation of restoration and rehabilitation strategies and medical medicine-based approaches for limb and digit salvage, craniomaxillofacial (ski healing, burn repair, genitourinary restoration and addressing compartment sy to swelling post-injury), and restoration and rehabilitation of sensory system in dysfunction.	ury. Additional studies are beginning in FY13 to support the development the development. Specific focus areas include: regeneull, face and jaw) reconstruction, scarless wourd and communication, and communication are sent to sent the sent the sent to sent the sent to sent the sent the sent the sent to sent the sent th	for the coment erative and due			
FY 2014 Plans:  Medical Training and Health Information Sciences (MTHIS) will further its reset through continued emphasis on the modular manikin core technology as well a and high fidelity peripherals that connect with and communicate to the core may for methods to promote pre-deployment psychological resilience training. Effort standardized patients (avatars) into a National collaboration to accelerate reset this promising technology. MTHIS's Health Informatics & Information Technol research on risk reduction within the Military Health System and identify IT near reduce potential near- and long-term risk of IT technology development and led Department of Veterans Affairs and Department of Defense integrated Electrons.	as anticipated release of a solicitation for low, reanikin system. Anticipate a research announce orts are planned to increase the presence of virearch, development, validation, and verification logy, in coordination with Pacific JITC, will conceds of the Warfighter. MTHIS will identify ways egacy systems, as well as the transition to the joint and the second solution.	nid, ement tual of luct s to			

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Defense Health Program

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defe	nse Health Program	]	DATE: M	larch 2013			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	PROJECT				
0130: Defense Health Program	PE 0604110HP: Medical Products Support	374A: GDF-	upport and				
BA 2: RDT&E	and Advanced Concept Development	Advanced C	Concept L	Developmer	nt		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2	2012	FY 2013	FY 2014		
of diagnostic capabilities and systems across operational ec the requirement, and continue multi-year efforts for the deve	of Diagnostic Systems for Infectious Diseases to support field techelons (a request for proposal will be executed in FY14 to support lopment of FDA-cleared tests to be used in prescreening deploy in emergency blood collection operations within the task entitled	ort ed					
· · · · · · · · · · · · · · · · · · ·	will continue to support clinical trials for the validation of improvent of PTSD, development and integration of the physiologic statuention, and nutrition and dietary supplement studies.						
plasma, smooth-pursuit eye tracking to diagnose concussion	ated in FY11 and FY12 to include further development of spray-cas, a system that kills infectious organisms in whole blood, clinical radrug to treat concussions. Advanced development on a system medics and medical treatment facilities will be initiated.	al					
regenerative medicine, and sensory system restoration and for battlefield pain management and regenerative medicine-l	will continue clinical studies in the areas of pain management, rehabilitation after traumatic injury. New clinical trials will start based approaches for limb and digit (fingers and toes) salvage, ess wound healing, burn repair, genitourinary restoration and cular damage due to swelling post-injury).						

## C. Other Program Funding Summary (\$ in Millions)

N/A

#### Remarks

## D. Acquisition Strategy

Test and evaluate medical device prototypes, medical procedures, and drug and vaccine candidates in government-managed Phase 1/2 clinical trials to gather data required for military and regulatory requirements prior to production and fielding, to include FDA licensure and Environmental Protection Agency registration.

**Accomplishments/Planned Programs Subtotals** 

159.890

144.403

132.430

#### **E. Performance Metrics**

Principal Investigators will participate in In-Progress Reviews, high-level DHP-sponsored Review & Analysis meetings, submit quarterly and annual status reports, and are subjected to Program Office or Program Sponsor Representatives progress reviews to ensure that Decision Gate milestones are being met and deliverables will

PE 0604110HP: Medical Products Support and Advanced Concept

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Defense Health Program Page 8 of 13 R-1 Line #7

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defe	ense Health Program		DATE: March 2013
APPROPRIATION/BUDGET ACTIVITY 0130: Defense Health Program BA 2: RDT&E	R-1 ITEM NOMENCLATURE PE 0604110HP: Medical Products Support and Advanced Concept Development	Advanced	F-Medical Products Support and Concept Development
	ct Teams, if established for a therapy or device, will monitor prog sition of research supported in this PE will be the attainment of a		

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Defense Health Program

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Health Program										DATE: March 2013		
APPROPRIATION/BUDGET AC 0130: Defense Health Program BA 2: RDT&E	TIVITY				PE 06041		ATURE cal Products ot Developn		PROJECT 400Z: CSI	- Congress	al Interests	
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
400Z: CSI - Congressional Special Interests	-	27.750	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## A. Mission Description and Budget Item Justification

The FY12 DHP Congressional Special Interests (CSI) funded peer-reviewed directed research for Traumatic Brain Injury and Psychological Health, and Joint Warfighter Medical Research. Because of the CSI annual structure, out-year funding is not programmed.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013
Congressional Add: 427A - Traumatic Brain Injury/ Psychological Health	17.750	-
FY 2012 Accomplishments: The Traumatic Brain Injury and Psychological Health (TBI/PH) CSI project funding was divided into applied research, technology development and concept development efforts. The project aims to prevent, mitigate, and treat the effects of combat-relevant traumatic stress and TBI on function, wellness, and overall quality of life, including interventions across the deployment lifecycle for warriors, Veterans, family members, caregivers, and communities. For TBI concept development efforts, researchers performed clinical trials that utilize smooth-pursuit eye tracking technology to diagnose concussions and pursued proposals to develop a burr-hole training device to aid in training non-neurosurgeons to do cranial decompression procedures and two clinical trials, one to test the use of low-dose methamphetamine for the treatment of TBI and the other to test Magnesium coupled with polyethylene glycol (a water soluble compound commonly used in medicine) for the treatment of spinal cord injury.		
Congressional Add: 441A - Joint Warfighter Medical Research Program	10.000	-
FY 2012 Accomplishments: The Joint Warfighter Medical Research Program Congressional Special Interest (CSI) is intended to provide continuing support for promising previously funded CSI projects, and to augment and accelerate high priority DoD and Service medical requirements that are close to achieving their objectives and yielding a benefit to military medicine. Project funding is divided into technology development and concept development efforts. The concept development projects are to advance device development, clinical trial support, and other meritorious projects to be selected. Through an iterative process of recommendations, several prior years of CSI-funded projects nominated by the Services, CSI managers, and execution activities were invited to submit augmented preproposals through the US Army Medical Research and Materiel Command Broad Agency Announcement. Based on these preproposals a programmatic review committee prioritized		

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

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<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Health Program	DATE: March 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	<b>PROJECT</b>	
0130: Defense Health Program	PE 0604110HP: Medical Products Support	400Z: CSI	- Congressional Special Interests
BA 2: <i>RDT&amp;E</i>	and Advanced Concept Development		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013
the research initiatives and the prioritization was approved by DoD Health Affairs in early September. Full proposals were received through the Broad Agency Announcement in late September and peer reviewed by the contracting officer representative and then evaluated through a second tier review and approved for funding in early November in accordance with the prioritization plan. Contract awards will be completed during the latter part of the first quarter and the second quarter of FY 13.		
Congressional Adds Subtotals	27.750	0.000

# C. Other Program Funding Summary (\$ in Millions)

N/A

#### Remarks

# D. Acquisition Strategy

Work under this PE will be solicited by traditional Program Announcements resulting in contracts or other transactions.

## **E. Performance Metrics**

N/A

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Defense Health Program

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Health Program							DATE: March 2013					
APPROPRIATION/BUDGET ACTIVITY 0130: Defense Health Program BA 2: RDT&E				PE 0604110HP: Medical Products Support				PROJECT 434A: AF-Medical Products Support and Advanced Concept Development				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
434A: AF-Medical Products Support and Advanced Concept Development	-	3.896	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### A. Mission Description and Budget Item Justification

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

Air Force Medical Products Support and Advanced Concept Development efforts are focused on achieving rapid transition of promising, high TRL commercially-available off-the-shelf products through minor modifications and/or enhancements to address the most pressing medical needs of the Warfighter, accelerating of the transition of those technologies to the operators in the field. Development, Modification and Enhancement projects will emphasize technologies supporting Expeditionary Medicine, Enroute Care, Force Health Protection, Operational Medicine and Human Performance.

	20.2	1 1 2010	1 1 2017
Title: Air Force Medical Products Support and Advanced Concept Development	3.896	0.000	0.000
<b>Description:</b> Rapidly transition key COTS and near-COTS based technology solutions to the warfighter through assessment/ evaluation and minor modification or enhancement of solutions to address threshold operational requirements and associated key performance parameters.			
FY 2012 Accomplishments:  Transition of non-invasive Patient Warming and Cooling technology to operational use in expeditionary medical and enroute care settings; Transition of expanded pathogen detection, identification and quantification (DIQ) technology to operational use on existing COTS gas chromatograph, mass spectrometer platforms to address harmful and potentially harmful microbial volatile organic compounds (MVOC) and improve Force Health Protection. Transition of expanded multi-lingual voice translation COTS capability to operational use in beyond line of site / comm-out settings requiring on-board hardware based rapid translation capability. Transition of sensor integration platform and situational awareness/decision analytics algorithms and visualization tools needed to aggregate and integrate data from numerous field sensor platforms performing DIQ of air, water, soil, confined space sample analysis data streams throughout an AoR into decision quality information for leadership and enhanced force health protection.			
FY 2013 Plans: Continue transition efforts begun with FY12 funding received September 2012.			
FY 2014 Plans:			

PE 0604110HP: Medical Products Support and Advanced Concept Deve...

Defense Health Program

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FY 2012 FY 2013

FY 2014

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Health Program	DATE: March 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0130: Defense Health Program	PE 0604110HP: Medical Products Support	434A: AF-Medical Products Support and
BA 2: RDT&E	and Advanced Concept Development	Advanced Concept Development

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Complete transition efforts begun with FY12 funding received September 2012.			
Accomplishments/Planned Programs Subtotals	3.896	0.000	0.000

## C. Other Program Funding Summary (\$ in Millions)

N/A

#### Remarks

## **D. Acquisition Strategy**

Partnership with the US Navy in an inter-agency agreement and use (award of delivery orders and task assignments) to a engineering and manfacturing development IDIQ vehicle awarded under SBIR phase III provisions

#### E. Performance Metrics

Achievement of required TRL for each advanced concept development/product support project and fulfillment of established KPPs for same.

PE 0604110HP: Medical Products Support and Advanced Concept Deve...