

Defense Health Program  
Fiscal Year (FY) 2007 Budget Estimates  
Exhibit R-2, DHP Budget Item Justification

Date: January 2006  
R-1 Item Nomenclature: 4  
Biomedical Technology - 0602115HP

Appropriation/Budget Activity  
Defense Health Program/BA-2

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>
Total PE Cost	0.000	2.970	3.000	3.000	3.000	3.000	3.000
Clinical Research Program				0.800	0.800	0.800	0.800
Epidemic Outbreak Surveillance		2.970	3.000	1.000	1.000	1.000	1.000
Medical Modernization Programs				1.200	1.200	1.200	1.200

**A. Mission Description and Budget Item Justification:**

The Air Force Medical Service has realigned Defense Health Program (DHP), Operation and Maintenance funding to the DHP, Research, Development, Test and evaluation (RDT&E) appropriation in Fiscal Year (FY) 2006 and out. The RDT&E program supports the Air Force Surgeon General's (AFSG's) vision for medical modernization as stated in the US Air Force Medical Service FY 06 - 11 Medical Annual Planning and Programming Guidance, July 29, 2003. This action also supports the capabilities and objectives outlined in the AFMS Concept document for medical modernization in the areas of 1) Ensure a Fit and Healthy Force; 2) Prevent Casualties; 3) Restore Health; 4) Enhance Human Performance. Specific examples of validated Surgeon General's Requirements for Operational Capabilities Council (SGROCC) initiatives within the CONOPS areas include: Epidemic Outbreak Surveillance (EOS) and Clinical Research Program. Specific examples of validated SGROCC new initiatives include: Supervision, Transcutaneous Blood Analyzer, Development of Field-Deployable Cardiopulmonary Support Device, Micro array Automation/Gene Expression, and Genetic, Genomic, and Proteomics to Improve Clinical Care.

The Texas Research Institute for Environmental Studies and AFIERA partnered in a joint environmental research program to address environmental health issues facing the southwest border region of the U.S. and DoD industrial facilities. Clinical Research promotes and conducts biomedical research for general medical education in support of aerospace expeditionary operations and military families at 9 research sites to include 3 active animal laboratories, monitoring the adequate protection of the rights of human subjects and the safety of all subjects involved in clinical investigations and the quality and integrity of the resulting data submitted to the FDA.

Epidemic Outbreak Surveillance (EOS) is an integrated system to accelerate informed decisions involving infectious diseases. FY 02 - FY 04 research funding (>\$10M) was received from the Defense Threat Reduction Agency and Line Air Force for applied research and development. In FY 05 DoD is planning to provide \$5M under the Advanced Concepts Technology Demonstration program. DHP RDT&E funding is used to effectively continue the necessary medical research and application to design and improve genomic biotechnology aimed to transition into the AFMS. Program will work to evaluate the feasibility of the ACDT concept toward application for AFMS biotechnology and use for operational medicine.

Clinical Research Program promotes/conducts biomedical research and medical education in support of aerospace expeditionary operations and military families and ensures protection of subjects when participating in research projects. Funding for applied research focused toward specific physical and mental effectiveness of AF personnel as well as public health and epidemiological technologies. Clinical Research Program supports the transition of basic research into applied biomedical solutions. The AF conducts Clinical Investigation activities at 9 research sites, 3 with active animal laboratories, which align current research program with HAF Requirements and MAJCOM programmed clinical research requirements.

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Biomedical Technology - 0602115HP (Continued)

Appropriation/Budget Activity  
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**B. Program Change Summary:**

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007
FY07 Budget Estimates Submission RDT&E	0.000	3.000	3.000
FY07 President's Budget Submission RDT&E	0.000	2.970	3.000
Total Adjustments	0.000	-0.030	0.000
Congressional Program actions			
Congressional rescissions		-0.030	
Congressional increases			
Reprogrammings			
SBIR/STTR Transfer - year of execution adjustment			
Internal Transfer			

**C. Other Program Funding Summary:**

	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>
DHP Operation & Maintenance							
BA-1, PE 0807714	1.000	1.500	2.500	2.500	2.500	2.500	2.500

**D. Acquisition Strategy:** Not applicable.