

**Defense Health Program  
Fiscal Year (FY) 2009 Budget Estimates  
Exhibit R-2, DHP RDT&E Budget Item Justification**

Appropriation/Budget Activity  
Defense Health Program/BA: 2

DATE: February 2008  
R1 Item Nomenclature: 4  
Biomedical Technology  
0602115HP

COST: (Dollars in Thousands)

	2007 Actual	2008 Estimate	2009 Estimate	2010 Estimate	2011 Estimate	2012 Estimate	2013 Estimate
<b>Total PE 0602115</b>	2.925	3.073	3.231	3.311	3.394	3.479	3.566
<b>Clinical Research (Air Force)</b>	0.000	0.780	0.800	0.800	0.800	0.800	0.800
<b>Epidemic Outbreak Surveillance (Air Force)</b>	2.925	0.975	1.000	1.311	1.394	1.479	1.566
<b>Medical Modernization Programs (Air Force)</b>	0.000	1.318	1.431	1.200	1.200	1.200	1.200

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:** The Air Force Medical Service Biomedical Research & Development program supports the Air Force Surgeon General's (AFSG's) vision for medical modernization and 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 that will be addressed by funding in this PE include: Advanced Diagnostics & Therapeutics applied research (Micro array Automation/Gene Expression), Directed Energy Weapon Human Effects Countermeasures, Human Systems Integration, Critical Care Air Transport Modernization, Genetic/Genomic/Proteinomic (Personalized Medicine)/related research efforts to improve care for the Wounded Warrior.

Epidemic Outbreak Surveillance (EOS) & Advanced Diagnostic & Therapeutics is a comprehensive effort to accelerate our ability to make informed decisions involving infectious diseases and to provide advance therapies for same. As the Advanced Concept Technology Demonstration project funded in FY05 transitions in FY09, we will begin to build upon the concepts and capabilities demonstrated by focusing efforts on bridge technologies during FY08 and FY09 leading to anticipated technological advancements throughout industry in the arena of Personalized Medicine (G2P).

**Defense Health Program  
Fiscal Year (FY) 2009 Budget Estimates  
Exhibit R-2, DHP RDT&E Budget Item Justification**

Appropriation/Budget Activity  
Defense Health Program/BA: 2

DATE: February 2008  
R1 Item Nomenclature: 4  
Biomedical Technology  
0602115HP

The 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 is focused toward specific physical and mental effectiveness of AF personnel as well as public health and epidemiological technologies. This program supports transition of basic research into applied biomedical solutions; research activities are conducted at 9 investigative sites, 3 with active animal laboratories.

The Medical Modernization Program supports the RDT&E efforts needed to address ongoing and planned Air Force Medical Service modernization initiatives, which are directed to meet new or enhanced capabilities including Modernization projects aimed to address critical continuity of care issues for our Wounded Warriors, improve recovery and rates of return to duty/productive members of society. The program funds initiatives across the spectrum of biomedical development to include Directed Energy Weapon Human Effects Countermeasures (as defined by the DETF), Human Systems Integration projects, Critical Care Air Transport Modernization, and Genetic/Genomic/Proteinomic (Personalized Medicine)/related research efforts.

**B. PROGRAM CHANGE SUMMARY:**

	<u>2007</u>	<u>2008</u>	<u>2009</u>
FY09 Budget Estimate RDT&E	2.925	3.152	3.231
SBIR	0.000	-0.079	0.000
Transfer	0.000	0.000	0.000
FY09 Budget Submission RDT&E	2.925	3.073	3.231

**PROGRAM CHANGE SUMMARY EXPLANATION:** Not Required

**Defense Health Program**  
**Fiscal Year (FY) 2009 Budget Estimates**  
**Exhibit R-2, DHP RDT&E Budget Item Justification**

Appropriation/Budget Activity  
 Defense Health Program/BA: 2

DATE: February 2008  
 R1 Item Nomenclature: 4  
 Biomedical Technology  
 0602115HP

**C. OTHER PROGRAM FUNDING SUMMARY:**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
	<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	1.365	3.823	3.965	2.973	3.062	3.154	3.249

**D. ACQUISITION STRATEGY:** Not Required

**E. PERFORMANCE METRICS:** Not Required