

**Defense Health Program
Fiscal Year (FY) 2008/2009 Budget Estimates
Exhibit R-2, DHP RDT&E Budget Item Justification**

Appropriation/Budget Activity
Defense Health Program/BA: 2

DATE: February 2007
R1 Item Nomenclature: 4
Biomedical Technology
0602115HP

COST: (Dollars in Thousands)

	FY 2006 Actuals	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
Total PE 0602115	2.896	3.000	3.152	3.231	3.311	3.394	3.479	3.566
Clinical Research	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800
AF-Epidemic Outbreak Surveillance	2.896	3.000	1.152	1.231	1.311	1.394	1.479	1.566
Medical Modernization Programs	0.000	0.000	1.200	1.200	1.200	1.200	1.200	1.200

Reflects FY 2007 President's Budget Request. Current Continuing Resolution funding for RDT&E is \$379,603 thousand.

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Air Force Medical Service 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 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) new initiatives include: Supervision, Transcutaneous Blood Analyzer, Development of Field-Deployable Cardiopulmonary Support Device, Micro array Automation/Gene Expression, and Genetic, Genomic, and Proteinomics to Improve Clinical Care.

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 provided \$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

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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.

B. PROGRAM CHANGE SUMMARY:

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>
FY08 Budget Estimate RDT&E	2.896	3.000	3.152
FY08 Budget Submission RDT&E	2.896	3.000	3.152

PROGRAM CHANGE SUMMARY EXPLANATION: Not required

C. OTHER PROGRAM FUNDING SUMMARY:

	<u>FY 2006</u>	<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>Actuals</u>	<u>Estimate</u>						
DHP Operation & Maintenance								
BA-1, PE 0807714	1.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500

D. ACQUISITION STRATEGY: Not required

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E. PERFORMANCE METRICS: Not required