

**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: 1  
In-House Laboratory Independent Research  
0601101HP

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
<b>Total PE 0601101</b>	2.296	2.424	2.213	2.259	2.304	2.350	2.397	2.445
<b>Infectious Disease</b>	0.321	0.339	0.309	2.259	2.304	2.350	2.397	2.445
<b>Military Operational Medicine</b>	0.986	1.041	0.950	0.000	0.000	0.000	0.000	0.000
<b>Combat Casualty Care</b>	0.989	1.044	0.954	0.000	0.000	0.000	0.000	0.000

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:** This program element supports basic medical research at the Uniformed Services University of the Health Sciences (USUHS). It facilitates the recruitment and retention of faculty; supports unique research training for military medical students and resident fellows; and allows the University's faculty researchers to collect pilot data in order to secure research funds from extramural sources (estimated \$25-\$30 million annually). Approximately sixty intramural research projects are active each year, including 15 new starts. Projects are funded on a peer-reviewed, competitive basis. Results from these studies contribute to the fund of knowledge intended to enable technical approaches and investment strategies within Defense Science and Technology (S&T) programs.

The ILIR program at USUHS is designed to answer fundamental questions of importance to the military medical mission of the Department of Defense in the areas of Combat Casualty Care (CCC), Infectious Diseases (ID), and Military Operational Medicine (MOM). The portfolio of research projects will vary annually because this research is investigator-initiated. Examples of typical research efforts are:

Combat Casualty Care: Ischemia and reperfusion injury, traumatic brain and peripheral nerve injury, neural

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control of pain, endotoxic shock, cryotherapy, malignant hyperthermia, inflammation, and wound healing. Infectious Diseases: Immunology and molecular biology of bacterial, viral and parasitic disease threats to military operations. These threats include scrub typhus; E. coli and their shiga toxins; HIV, HTLV-1, strongyloides, gonorrhea, streptococcus, staphylococcus, hepatitis A, helicobacter pylori, typhoid, malaria, and bartonellosis.

Military Operational Medicine: Sustainment of individual performance; mapping and managing deployment and operational stressors; cognitive enhancement; and military & medical training readiness.

**B. PROGRAM CHANGE SUMMARY:**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>
FY08 Budget Estimate RDT&E	2.296	2.424	2.213
FY08 Budget Submission RDT&E	2.296	2.424	2.213

**PROGRAM CHANGE SUMMARY EXPLANATION:** Not required

**C. OTHER PROGRAM FUNDING SUMMARY:** Not required

**D. ACQUISITION STRATEGY:** Not required

**E. PERFORMANCE METRICS:** Not required