

**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: 2  
Medical Technology (AFRRI)  
0602787HP

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 0602787</b>	3.056	3.236	3.306	3.381	3.417	3.553	3.694	3.841
<b>Biodosimetry</b>	0.623	0.660	0.675	0.000	0.000	0.000	0.000	0.000
<b>Internal Contamination</b>	0.323	0.343	0.350	0.000	0.000	0.000	0.000	0.000
<b>Radiation Countermeasures</b>	2.110	2.233	2.281	3.381	3.417	3.553	3.694	3.841

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 supports developmental research to investigate new approaches that will lead to advancements in biomedical strategies for preventing, treating, assessing and predicting the health effects of human exposure to ionizing radiation. Program objectives focus on mitigating the health consequences from exposures to ionizing radiation that represent the highest probable threat to U.S. forces under current tactical, humanitarian and counter-terrorism mission environments. New protective and therapeutic strategies will broaden the military commander's options for operating within nuclear or radiological environments by minimizing both short- and long-term risks of adverse health consequences. Advancements in field-based biological dose assessment systems to measure radiation exposures will enhance triage, treatment decisions and risk assessment. Accurate models to predict casualties will promote effective command decisions and force structure planning to ensure mission success.

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**B. PROGRAM CHANGE SUMMARY:**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>
FY08 Budget Estimate RDT&E	3.056	3.236	3.306
FY08 Budget Submission RDT&E	3.056	3.236	3.306

**PROGRAM CHANGE SUMMARY EXPLANATION:** Not required

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

**D. ACQUISITION STRATEGY:** Not required

**E. PERFORMANCE METRICS:**

Accomplishments: Identified 6 drugs or therapeutic approaches that are promising for treatment of radiation injury.

By FY 2008 identify at least 2 new biodosimetric approaches to determine individual radiation exposure.

By FY 2010 develop decision criteria for antibiotic use after radiation injury.