

**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: 3
Medical Advanced Technology (AFRRI)
0603002HP

COST: (Dollars in Thousands)

	2007 Actual	2008 Estimate	2009 Estimate	2010 Estimate	2011 Estimate	2012 Estimate	2013 Estimate
Total PE 0603002	0.779	0.797	0.836	0.737	0.752	0.767	0.783
Biodosimetry	0.458	0.476	0.501	0.442	0.451	0.460	0.470
Radiation Countermeasures	0.321	0.321	0.335	0.295	0.301	0.307	0.313

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The first two programs support applied research for advanced development of biomedical strategies to prevent, treat and assess health consequences from exposure to ionizing radiation. It capitalizes on findings under PE 0602787D, Medical Technology, and from industry and academia to advance novel medical countermeasures into and through pre-clinical studies toward newly licensed products. Program objectives focus on mitigating the health consequences from exposures to ionizing radiation that represent the highest probable threat to US forces under current tactical, humanitarian and counter terrorism mission environments. Findings from basic and developmental research are integrated into highly focused advanced technology development studies to produce the following: (1) protective and therapeutic strategies; (2) novel biological markers and delivery platforms for rapid, field-based individual dose assessment; and (3) experimental data needed to build accurate models for predicting casualties from complex injuries involving radiation and other battlefield insults. The Armed Forces Radiobiology Research Institute (AFRRI), because of its multidisciplinary staff and exceptional laboratory and radiation facilities, is uniquely positioned to execute the program as prescribed by its mission.

B. PROGRAM CHANGE SUMMARY:

	<u>2007</u>	<u>2008</u>	<u>2009</u>
FY09 Budget Estimate RDT&E	0.779	0.817	0.836
SBIR	0.000	-0.020	0.000
FY09 Budget Submission RDT&E	0.779	0.797	0.836

**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: 3
Medical Advanced Technology (AFRRI)
0603002HP

PROGRAM CHANGE SUMMARY EXPLANATION: Not Required

C. OTHER PROGRAM FUNDING SUMMARY: Not Required

D. ACQUISITION STRATEGY: Not Required

E. PERFORMANCE METRICS:

Accomplishments: Obtained "investigational new drug" status for a therapeutic agent to mitigate radiation injury, and released PC-based software tool for biodosimetric assessment (BAT).

By FY 2010 transition 4 new drugs for FDA approval for treatment of radiation injury.

By FY 2010 provide forward-fieldable biodosimetric tools.

By FY 2012 provide validated automated cytogenetic biodosimetric assay (RICA).