

Defense Health Program
 Fiscal Year (FY) 2011 Budget Estimates
 Exhibit R-2, DHP RDT&E Budget Item Justification

Appropriation/Budget Activity
 Defense Health Program/BA: 2

DATE: February 2010
 R1 Item Nomenclature: 4
 Medical Technology (AFRRI)
 0602787HP

COST: (Dollars in Millions)

	2009 Actual	2010 Estimate	2011 Estimate	2012 Estimate	2013 Estimate	2014 Estimate	2015 Estimate
Total PE 0602787	2.977	3.332	3.553	3.694	3.841	3.918	3.996
Biodosimetry (USUHS)	0.452	0.680	0.724	0.753	0.783	0.799	0.815
Internal Contamination (USUHS)	0.315	0.353	0.377	0.391	0.410	0.418	0.426
Radiation Countermeasures (USUHS)	2.210	2.299	2.452	2.550	2.648	2.701	2.755

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: For the Uniformed Services University of the Health Sciences (USUHS), Armed Forces Radiobiology Research Institute (AFRRI), 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 in 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.

Defense Health Program
 Fiscal Year (FY) 2011 Budget Estimates
 Exhibit R-2, DHP RDT&E Budget Item Justification

Appropriation/Budget Activity
 Defense Health Program/BA: 2

DATE: February 2010
 R1 Item Nomenclature: 4
 Medical Technology (AFRRI)
 0602787HP

B. PROGRAM CHANGE SUMMARY:

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
FY11 Budget Estimate RDT&E	2.977	3.417	3.553	3.694
SBIR	0.000	-0.085	0.000	0.000
FY11 Budget Submission RDT&E	2.977	3.332	3.553	3.694

PROGRAM CHANGE SUMMARY EXPLANATION:

FY09:
 No Change.

FY10:
 SBIR Transfer from DHP RDT&E Program Element 0602787-Medical Technology (AFRRI) to DHP RDT&E Program Element 0605502-Small Business Innovation Research (SBIR) (-\$0.085 million).

FY11:
 No Change.

FY12:
 No Change.

C. OTHER PROGRAM FUNDING SUMMARY: None.

D. ACQUISITION STRATEGY: Not Required.

E. PERFORMANCE METRICS:

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

By FY 2011 identify 4 promising new drugs and/or therapeutic approaches for radiation injury.

By FY 2012 begin characterization of a new large animal model to supplement an alternative to the non-human primate.