

Exhibit R-2, RDT&E Budget Item Justification

Date: February 2003

Appropriation/Budget Activity RDT&E, D BA2				R-1 Item Nomenclature: Medical Technology, PE 0602787D8Z				
Cost (\$ in millions)	2002	2003	2004	2005	2006	2007	2008	2009
Total PE Cost	8.971	0.00	9.213	10.111	10.297	10.506	10.711	10.917
Medical Technology/P505	8.971	0.00	9.213	10.111	10.297	10.506	10.711	10.917

A. Mission Description and Budget Item Justification:

Starting in FY 2003, this program is being transferred back to the DoD from the Department of Health and Human Services.

(U) 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 ionizing radiation. 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. 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.

(U) The program has three primary goals: (1) rational development of prophylactic and therapeutic strategies based on fundamental knowledge of radiation-induced pathophysiology and on leveraging advances in medicine and biotechnology from industry and academia; (2) development of novel biological markers and delivery platforms for rapid, field-based individual dose assessment; (3) understanding toxic consequences from chronic exposure to tissue-embedded depleted uranium (DU).

B. Program Change Summary: (Show total funding, schedule, and technical changes for the program element that have occurred since the previous President's Budget Submission)

	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>
Previous President's Budget	8.971	0	0	0
Current FY04 President's Budget	8.971	0	9.213	10.111
Total Adjustments			9.213	10.111
Congressional program reductions				
Congressional rescissions				
Congressional increases				
Reprogrammings				
SBIR/STTR Transfer				
Other			9.213	10.111