

Defense Health Program
 Fiscal Year (FY) 2012 Budget Estimates
 Exhibit R-2, DHP RDT&E Budget Item Justification

Appropriation/Budget Activity
 Defense Health Program/BA: 2

DATE: February 2011
 R1 Item Nomenclature: 2
 Basic Operational Medical Research Sciences
 0601117HP

COST: (Dollars in Millions)

	2010 Actual	2011 Estimate	2012 Estimate	2013 Estimate	2014 Estimate	2015 Estimate	2016 Estimate
Total PE 0601117	88.498	0.000	0.000	0.000	0.000	0.000	0.000
GDF-Basic Operational Medical Research Sciences (GDF-BOMRS)	53.568	0.000	0.000	0.000	0.000	0.000	0.000
WWE-Basic Operational Medical Research Sciences (WWE-BOMRS)	34.930	0.000	0.000	0.000	0.000	0.000	0.000

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element (PE) provides support for basic medical research directed toward greater knowledge and understanding of the fundamental principles of science and medicine that are relevant to the improvement of Force Health Protection. Research in this PE is designed to address the following: areas of interest to the Secretary of Defense regarding Wounded Warriors, capabilities identified through the Joint Capabilities Integration and Development System (JCIDS), and the strategy and initiatives described in the Quadrennial Defense Review (QDR). Program development and execution is peer-reviewed and fully coordinated with all of the Military Services, appropriate Defense Agencies or Activities and other federal agencies, to include the Department of Veterans Affairs, the Department of Health and Human Services, and Department of Homeland Security. This coordination occurs through the planning and execution activities of the Joint Program Committees (JPCs), established for the Defense Health Program enhanced RDT&E funding. Research supported by this PE includes polytrauma and blast injury, rehabilitation, diagnosis and treatment of brain injury, operational health and performance, artificial intelligence and emotive avatars, psychological health and well-being for military personnel and families and medical simulation and training. Funds in this PE are for basic research that promises to provide important new approaches to complex military medical problems. In subsequent years, the most promising of these efforts will be transitioned to applied research (PE 0602115HP) or technology development (0603115HP) funding, as appropriate to the Technology Readiness Level (TRL) of the effort.

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In FY10, funding was provided to stimulate innovative research at intramural and extramural research sites for Wounded Warrior Enhancement. This effort included funding for operational health and performance, polytrauma and blast, psychological health and well-being for military personnel and families, rehabilitation, and traumatic brain injury.

B. PROGRAM CHANGE SUMMARY:

	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
FY12 Budget Estimate RDT&E	55.302	0.000	0.000	0.000
Reprogramming	34.930	0.000	0.000	0.000
SBIR	-1.734	0.000	0.000	0.000
FY12 Budget Submission RDT&E	88.498	0.000	0.000	0.000

PROGRAM CHANGE SUMMARY EXPLANATION:

FY 2010: Prior Approval Reprogramming, FY 10-17 PA, from DHP Operation and Maintenance (O&M) to DHP RDT&E, PE 0601117 - Basic Operational Medical Research Sciences for Congressional Special Interest item Wounded Warrior Enhancement (WWE) program (+\$34.930 million).

SBIR Transfer from DHP RDT&E, PE 0601117 - Basic Operational Medical Research Sciences (-\$1.734 million) to DHP RDT&E, PE 0605502 - Small Business Innovation Research (SBIR) program (+\$1.734 million).

FY 2011: No Change.

FY 2012: No Change.

FY 2013: No Change.

C. OTHER PROGRAM FUNDING SUMMARY: None.

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D. ACQUISITION STRATEGY: Not Required.

E. PERFORMANCE METRICS:

The benchmark performance metric for transition of research conducted with Basic Operational Medical Research Sciences funding will be the attainment of a maturity level that is typical of TRL3 or the equivalent for knowledge products.