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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Defense Health Agency **Date:** March 2023

Appropriation/Budget Activity 0130: <i>Defense Health Program I BA 2: RDT&E</i>	R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	34.721	24.938	53.783	40.311	0.000	40.311	41.476	41.708	41.911	42.751	Continuing	Continuing
100A: <i>Congressional Special Interests</i>	9.782	15.999	14.215	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
371: <i>GDF - Basic Operational Medical Research Science</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
371A: <i>GDF - BOMRS (Combat Casualty Care)</i>	17.330	1.306	1.356	1.381	0.000	1.381	1.410	1.437	1.466	1.495	Continuing	Continuing
371B: <i>GDF - BOMRS (Military Operational Medicine)</i>	5.498	5.515	5.720	5.836	0.000	5.836	5.953	6.072	6.193	6.317	Continuing	Continuing
371E: <i>GDF - BOMRS (Military Infectious Disease)</i>	2.111	2.118	2.197	2.241	0.000	2.241	2.285	2.331	2.378	2.426	Continuing	Continuing
371F: <i>GDF - BOMRS (Defense Research Sciences)</i>	0.000	0.000	30.295	30.853	0.000	30.853	31.828	31.868	31.874	32.513	Continuing	Continuing

Note

N/A

A. Mission Description and Budget Item Justification

Guidance for Development of the Force (GDF) -Basic Medical Research Sciences: 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. Research in this PE is designed to address areas of interest to the Secretary of Defense regarding Service Member Health, capabilities identified through the Joint Capabilities Integration and Development System, and sustainment of DoD and multi-agency priority investments in science, technology, research, and development.

GDF basic research (PE 0601117) program development and execution is peer-reviewed and coordinated with all of the Military Services, appropriate Defense agencies or activities and other federal agencies, to include the Department of Veterans Affairs, and the Department of Health and Human Services. Funds in this PE are for basic research that promises to provide important new approaches to complex military medical problems. As the research efforts mature, the most promising efforts will transition to applied research (PE 0602115) or technology development (PE 0603115) funding.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	9.091	39.568	40.311	0.000	40.311
Current President's Budget	24.938	53.783	40.311	0.000	40.311
Total Adjustments	15.847	14.215	0.000	0.000	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	15.999	14.215			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.152	-			

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 100A: *Congressional Special Interests*

Congressional Add: *GDF - Restore Core Research Funding Reduction*

	FY 2022	FY 2023
	15.999	14.215
Congressional Add Subtotals for Project: 100A	15.999	14.215
Congressional Add Totals for all Projects	15.999	14.215

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Health Agency **Date:** March 2023

Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>	Project (Number/Name) 100A / <i>Congressional Special Interests</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
100A: <i>Congressional Special Interests</i>	9.782	15.999	14.215	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

This is program increase due to GDF restoral in the FY22 enacted budget.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: GDF - Restore Core Research Funding Reduction	0.000	-	-	-	-
Accomplishments/Planned Programs Subtotals	0.000	-	-	-	-

Congressional Add: GDF - Restore Core Research Funding Reduction

FY 2022 Accomplishments: This is a program increase due to GDF restoral in the FY22 enacted budget.

FY 2023 Plans: This is a program increase due to GDF restoral in the FY23 enacted budget.

	FY 2022	FY 2023
Congressional Adds Subtotals	15.999	14.215

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Health Agency										Date: March 2023		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>				Project (Number/Name) 371 / <i>GDF - Basic Operational Medical Research Science</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
371: <i>GDF - Basic Operational Medical Research Science</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

Guidance for Development of the Force (GDF) - Basic Medical Research Sciences: 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. Research in this PE is designed to address areas of interest to the Secretary of Defense regarding Service Member Health, capabilities identified through the Joint Capabilities Integration and Development System, and sustainment of DoD and multi-agency priority investments in science, technology, research, and development.

GDF basic research (PE 0601117) program development and execution is peer-reviewed and coordinated with all of the Military Services, appropriate Defense agencies or activities and other federal agencies, to include the Department of Veterans Affairs, and the Department of Health and Human Services. Funds in this PE are for basic research that promises to provide important new approaches to complex military medical problems. As the research efforts mature, the most promising efforts will transition to applied research (PE 0602115) or technology development (PE 0603115) funding.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Project 371 GDF – Basic Operational Medical Research Sciences	0.000	0.000	0.000	0.000	0.000
Description: Provide support for basic medical research directed toward attaining greater knowledge and understanding of fundamental principles of science and medicine relevant to the improvement of medical care in operationally relevant environments.					
FY 2023 Plans: N/A					
FY 2024 Base Plans: N/A					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: N/A					
Accomplishments/Planned Programs Subtotals	0.000	0.000	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Health Agency		Date: March 2023
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>	Project (Number/Name) 371 / <i>GDF - Basic Operational Medical Research Science</i>

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Health Agency										Date: March 2023		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>				Project (Number/Name) 371A / <i>GDF - BOMRS (Combat Casualty Care)</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
371A: <i>GDF - BOMRS (Combat Casualty Care)</i>	17.330	1.306	1.356	1.381	0.000	1.381	1.410	1.437	1.466	1.495	Continuing	Continuing

A. Mission Description and Budget Item Justification

Basic research described here focuses on the enhancement of knowledge to support capabilities identified through the Joint Capabilities Integration Development System process and sustainment of DoD and multi-agency priority investments in science, technology, research and development. This project supports combat casualty care basic research with the goal of optimizing Warfighter survival and recovery from combat-related injury in current and future operational scenarios by driving medical innovation through development of knowledge and materiel solutions for the acute and early management of combat-related trauma, including point of injury, en route, and facility-based care.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Combat Casualty Care	1.306	1.356	1.381	0.000	1.381
Description: Combat Casualty Care basic research activities are focused on pre-hospital tactical combat casualty care (TCCC) toward improved Warfighter survival of casualties with potentially survivable wounds.					
FY 2023 Plans: Will continue to conduct combat casualty care-relevant basic research focused on TCCC, such as defining biological and pathophysiological mechanisms of the acute effects of trauma including that of life threatening external, junctional (arm pit and groin), and internal (abdomen and chest) bleeding; abnormal blood clotting due to excessive blood loss; and compromised breathing due trauma to the thorax or airways.					
FY 2024 Base Plans: Efforts will continue to focus on Basic Research related to TCCC; defining biological and pathophysiological mechanisms of the acute effects of trauma including that of life threatening external bleeding, excessive blood loss resulting in abnormal blood clotting; trauma to airways resulting in compromised breathing.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Increase due to inflation.					
Accomplishments/Planned Programs Subtotals	1.306	1.356	1.381	0.000	1.381

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Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>	Project (Number/Name) 371A / <i>GDF - BOMRS (Combat Casualty Care)</i>

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Health Agency										Date: March 2023		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>				Project (Number/Name) 371B / <i>GDF - BOMRS (Military Operational Medicine)</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
371B: <i>GDF - BOMRS (Military Operational Medicine)</i>	5.498	5.515	5.720	5.836	0.000	5.836	5.953	6.072	6.193	6.317	Continuing	Continuing

A. Mission Description and Budget Item Justification

Basic research described here focuses on the enhancement of knowledge to support capabilities identified through the Joint Capabilities Integration Development System process and sustainment of DoD and multi-agency priority investments in science, technology, research and development. This project supports military operational medicine basic research with the goal of maximizing the health, readiness, and performance of Service Members and their families by the development of effective biomedical countermeasures against operational stressors, and prevention and treatment of physical and psychological injuries during training and operations.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Military Operational Medicine	5.515	5.720	5.836	0.000	5.836
Description: Military Operational Medicine basic research efforts are focused on increasing fundamental knowledge and understanding to support the development of medical countermeasures in the areas of musculoskeletal injury prevention and treatment; blunt, blast, accelerative and neurosensory injury; psychological health and resilience; performance in extreme environments; and optimized cognition and fatigue mitigation.					
FY 2023 Plans: Continue to conduct basic research with focus on injury prevention and recovery related to blunt, blast, and accelerative injuries; injury prevention and recovery related to musculoskeletal injury; performance nutrition and weight balance; operational systems toxicology for environmental health hazards; and fatigue, cognitive health and performance.					
FY 2024 Base Plans: Efforts will continue to focus on Basic Research related to injury prevention and recovery related to blunt, blast, and accelerative injuries; injury prevention and recovery related to musculoskeletal injury; performance nutrition and weight balance; operational systems toxicology for environmental health hazards; and fatigue, cognitive health and performance.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement:					

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Increase is due to inflation.					
Accomplishments/Planned Programs Subtotals	5.515	5.720	5.836	0.000	5.836

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

N/A

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Health Agency **Date:** March 2023

Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 060117DHA / <i>Basic Operational Medical Research Sciences</i>			Project (Number/Name) 371E / <i>GDF - BOMRS (Military Infectious Disease)</i>				
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
371E: <i>GDF - BOMRS (Military Infectious Disease)</i>	2.111	2.118	2.197	2.241	0.000	2.241	2.285	2.331	2.378	2.426	Continuing	Continuing

A. Mission Description and Budget Item Justification

Basic research described here focuses on the enhancement of knowledge to support capabilities identified through the Joint Capabilities Integration Development System process and sustainment of DoD and multi-agency priority investments in science, technology, research and development. This project supports military infectious diseases basic research toward the goal of preventing and treating infectious disease threats to eliminate their impacts on operational readiness.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Military Infectious Diseases	2.118	2.197	2.241	0.000	2.241
Description: Military infectious diseases basic research activities support efforts in military relevant emerging infectious diseases threats.					
FY 2023 Plans: Will continue to conduct basic research in emerging infectious diseases to respond to new and emerging infectious diseases threats and accelerate promising, innovative countermeasures.					
FY 2024 Base Plans: Efforts will continue to focus on basic research related to response to and countermeasures against new and emerging infectious diseases.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Increase due to inflation.					
Accomplishments/Planned Programs Subtotals	2.118	2.197	2.241	0.000	2.241

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

N/A

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D. Acquisition Strategy
N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Defense Health Agency **Date:** March 2023

Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0601117DHA / <i>Basic Operational Medical Research Sciences</i>	Project (Number/Name) 371F / <i>GDF - BOMRS (Defense Research Sciences)</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
371F: <i>GDF - BOMRS (Defense Research Sciences)</i>	0.000	0.000	30.295	30.853	0.000	30.853	31.828	31.868	31.874	32.513	Continuing	Continuing

A. Mission Description and Budget Item Justification

Basic research described here focuses on building fundamental scientific knowledge contributing to the sustainment of scientific and technology information for solving military medical problems related to infectious diseases, operational medicine and combat care.

B. Accomplishments/Planned Programs (\$ in Millions)

Title: GDF - BOMRS (Defense Research Sciences)

Description: Programmatic transfer in accordance with the 711/737 US Army Medical Research and Development Command transfer to Defense Health Agency in support of Medical Systems, Advanced Technology & Development from Army PE 0601102A. This project provides the means to exploit scientific breakthroughs and avoid technological surprises, and fosters innovation in military medicine-relevant areas where there is little or no commercial investment due to limited markets and maintains laboratory capability to perform these functions.

FY 2023 Plans:

Efforts will focus on Basic Research in support of medical problems related to infectious diseases, operational medicine and combat care.

FY 2024 Base Plans:

Efforts will focus on Basic Research in support of military medical problems related to Autonomous Care and Evacuation, Aviation Medicine, Brain Trauma, Burn Injury, Combined Injury, Endemic and Emerging Infectious Diseases, En Route Care, Health in Extreme Environments, Neuromusculoskeletal Injury Prevention & Treatment, Psychological Health Prevention & Treatment, Prolonged Care, Tactical Combat Casualty Care, Sustainment of Expeditory Medical Skills, Sustained Medical Readiness, Warfighter Protection & Survivability and Wound Management.

FY 2024 OCO Plans:

N/A

FY 2023 to FY 2024 Increase/Decrease Statement:

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: GDF - BOMRS (Defense Research Sciences)	0.000	30.295	30.853	0.000	30.853

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Increase due to inflation.					
Accomplishments/Planned Programs Subtotals	0.000	30.295	30.853	0.000	30.853

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

N/A

D. Acquisition Strategy

N/A