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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130: <i>Defense Health Program I BA 2: RDT&E</i>					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	323.828	24.398	25.228	23.780	-	23.780	19.844	20.062	19.815	20.212	Continuing	Continuing
239B: <i>Health Services Data Warehouse (Air Force)</i>	1.766	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
239F: <i>IM/IT Test Bed (Air Force)</i>	7.709	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
239G: <i>MHS Information Portal (MIP)</i>	2.803	1.384	1.461	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
239H: <i>IM/IT Test Bed (Air Force) at DHA</i>	1.769	2.141	2.686	2.740	-	2.740	2.795	2.851	2.908	2.966	Continuing	Continuing
283C: <i>Medical Operational Data System (MODS) (Army)</i>	8.393	2.606	2.732	2.759	-	2.759	2.787	2.842	2.899	2.957	Continuing	Continuing
283D: <i>Army Medicine CIO Management Operations</i>	1.175	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
283H: <i>Psychological and Behavioral Health - Tools for Evaluation, Risk, and Management (PBH-TERM)</i>	0.125	0.077	0.080	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
283J: <i>Antibiotic Resistance Monitoring and Research (ARMoR-D)</i>	2.460	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
283L: <i>Pharmacovigilance Defense Application System</i>	1.024	0.337	0.350	0.350	-	0.350	0.350	0.350	0.357	0.364	Continuing	Continuing
283M: <i>Business Intelligence Competency Center (BICC)</i>	1.488	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
283N: <i>Corporate Dental System (CDS)</i>	0.709	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
283P: <i>Mobile HealthCare Environment (MHCE)</i>	0.662	0.402	0.331	0.473	-	0.473	0.364	0.378	0.385	0.393	Continuing	Continuing
385A: <i>Integrated Electronic Health Record Inc 1 (Tri-Service)</i>	146.417	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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Appropriation/Budget Activity					R-1 Program Element (Number/Name)								
0130: Defense Health Program I BA 2: RDT&E					PE 0605013DHA I Information Technology Development								
386A: Virtual Lifetime Electronic Record (VLER) HEALTH (Tri-Service)	14.464	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
423A: Defense Center of Excellence (FHP&RP)	3.464	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
423B: Defense Center of Excellence (Army)	0.996	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
423C: Defense Center of Excellence (T2T/PBH TERM) (DHA)	1.318	1.344	1.422	1.450	-	1.450	1.478	1.509	1.539	1.570	Continuing	Continuing	
435A: NICOE Continuity Management Tool	2.855	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
446A: Disability Mediation Service (DMS)	1.286	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480B: Defense Medical Human Resources System (Internet) (DMHRSi) (Tri-Service)	0.585	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480C: Defense Medical Logistics Standard Support (DMLSS) (Tri-Service)	17.732	2.278	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480D: Defense Occupational and Environmental Health Readiness System - Industrial Hygiene (DOEHRS-IH) (Tri-Service)	13.967	5.805	5.559	3.868	-	3.868	7.700	7.675	7.181	7.325	Continuing	Continuing	
480F: Executive Information/ Decision Support (EI/DS) (Tri-Service)	5.936	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480G: Health Artifact and Image Management Solution (HAIMS) (Tri-Service)	8.123	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480K: Integrated Federal Health Registry Framework (Tri-Service)	4.065	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	

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0130: Defense Health Program I BA 2: RDT&E					PE 0605013DHA I Information Technology Development								
480M: Theater Medical Information Program - Joint (TMIP-J) (Tri-Service)	28.731	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480P: Other Related Technical Activities (Tri-Service)	4.807	3.371	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480Y: Clinical Case Management (Tri-Service)	2.925	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
481A: Theater Enterprise Wide Logistics System (TEWLS) Tri-Service)	5.127	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
482A: E-Commerce (DHA)	13.193	3.568	4.200	4.284	-	4.284	4.370	4.457	4.546	4.637	Continuing	Continuing	
490I: Navy Medicine Chief Information Officer	6.237	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
490J: Navy Medicine Online	5.259	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480A: Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) (Tri-Service)	5.031	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480Z: Patient Reported Outcomes Clinical Record (Previous known as PASTOR) (Tri-Service)	0.798	0.519	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
480R: Joint Disability Evaluation System IT (DHA)	0.429	0.566	0.666	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
485: Legacy Data Repository (DHA-C)	0.000	0.000	5.741	5.856	-	5.856	0.000	0.000	0.000	0.000	Continuing	Continuing	
505: Military Health System Virtual Health Program (MHS VHP)	-	0.000	0.000	2.000	-	2.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): 465													

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Defense Health Agency		Date: February 2019
Appropriation/Budget Activity 0130: Defense Health Program I BA 2: RDT&E		R-1 Program Element (Number/Name) PE 0605013DHA I Information Technology Development
A. Mission Description and Budget Item Justification		
The Army Medical Command received PE 0605013 funding to identify, explore, and demonstrate key technologies to overcome medical and military unique technology barriers. Programs include Army service level support for the Medical Operational Data System (MODS); Army Medicine CIO Management Operations; Psychological and Behavioral Health – Tools for Evaluation, Risk, and Management (PBH-TERM); Antibiotic Resistance Monitoring and Research (ARMoR-D); Pharmacovigilance Defense Application System (PVDAS); Mobile HealthCare Environment (MHCE); and the Defense Center of Excellence (DCoE). For the Air Force, the funding in this program element provides for sustainment of the IM/IT Test Bed (IMIT-TB) capability, which is a dedicated OT location and staff encompassing the entire spectrum of healthcare services and products available in MTFs, to provide risk controlled testing of designated core and interim medical applications in a live environment. Defense Health Agency (DHA) Health Information Technology (HIT) [previously known as Tri-Service IM/IT] - DHA HIT RDT&E activities includes funding for development/integration, modernization, test and evaluation for the Defense Health Agency initiatives, and any special interest that are shared within all centralized components of the Defense Health Program (DHP). The DHP RDT&E appropriation includes the following TMA initiatives: Electronic Commerce System (E-Commerce): This system was developed for centralized collection, integration, and reporting of accurate purchased care contracting and financial data. It provides an integrated set of data reports from multiple data sources to management, as well as tools to control the end-to-end program change management process. E-Commerce is composed of several major applications including: Contract Management (CM), utilizing Prism software to support contract action development and documentation; Resource Management (RM), employing Oracle Federal Financials and TED interface software to support the budgeting, accounting, case recoupment, and disbursement processes; Document Management, utilizing Document software to provide electronic storage, management, and retrieval of contract files; Management Tracking and Reporting, utilizing custom software to provide reports to assist in the management and tracking of changes to the managed care contracts as well as current and out year liabilities; the Purchased Care and Contractor’s Resource Center web sites that provide up-to-date financial information for both TMA and the Services concerning the military treatment facilities (MTFs), and expenditures for MTF enrollee purchased care and supplemental care. E-Commerce includes an infrastructure of over 60 servers supporting development, test, and production. E-Commerce is employed by several hundred users in more than 7 different organizations. Project oversight and coordination must be provided to ensure that the needs of the disparate organizations are met without influencing system performance or support to any individual user. Server configurations must remain current with respect to security policies, user authorizations, and interactions with other systems and functions. All of these activities must be managed and coordinated on a daily basis.		

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Appropriation/Budget Activity 0130: <i>Defense Health Program I BA 2: RDT&E</i>	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>
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B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	25.323	25.228	26.497	-	26.497
Current President's Budget	24.398	25.228	23.780	-	23.780
Total Adjustments	-0.925	0.000	-2.717	-	-2.717
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.925	-			
• MHS IT Reform initiative	-	-	-5.376	-	-5.376
• Component adds	-	-	2.659	-	2.659

Change Summary Explanation

Funding added for the new initiative Military Health System Virtual Health Program (+2.000M) and ILER (+0.659M) offset by reductions associated with MHS IT Reform (-5.376M) initiative.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 239B / <i>Health Services Data Warehouse (Air Force)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
239B: <i>Health Services Data Warehouse (Air Force)</i>	1.766	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
 Previously known as Assessment Demonstration Center (ADC), Health Services Data Warehouse (HSDW) addresses and focuses on Air Force Medical Service (AFMS) Data Strategy under the DoD and AF Net Centric Enterprise Services. HSDW will develop an Enterprise Data Warehouse (EDW) and Data Marts consolidating databases and transition to a SOA architecture. Program will improve data collection, aggregation, analysis, and data visualization of medical information. New data models will allow rapid development of enterprise-wide reports utilizing Business Intelligence tools.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: 239B - Health Services Data Warehouse	0.000	-	-
Description: AFMS will purchase COTS software/licenses and build custom scripts for development of the data warehouse. The COTS software will expedite consolidation and cleansing of data, measure data quality, merge and organize data for reporting tools. These efforts will be used to complete the transition of CDM data into the HSDW.			
Accomplishments/Planned Programs Subtotals			
	0.000	-	-

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

Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• BA-1, 0807781HP: <i>Non-Central Information Management/Information Technology</i>	0.000	0.000	0.000	-	0.000	0.000	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy
N/A

E. Performance Metrics
N/A

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Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 239F / IM/IT Test Bed (Air Force)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
239F: IM/IT Test Bed (Air Force)	7.709	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

Dedicated operational test (OT) location and staff encompassing the entire spectrum of healthcare services and products available in Military Treatment Facilities (MTFs), to provide realistic, risk controlled testing of designated core and interim medical applications in an operationally realistic environment. Critical component of ongoing capability development & fielding efforts, ensuring that each is supported by an independent, unbiased assessment of effectiveness, suitability, security, and survivability in a realistic operational environment as required by the FAR 46.103, DoD 5000, and AFI 99-103. The AFMISTB is a complementary service to existing MHS developmental, integration, interoperability, and security testing facilities, forming a logical test process continuum leading to effective deployment decisions. Outcomes include decreasing life-cycle costs of IM/IT products by catching errors early in the acquisition process where they are less costly to fix, and increasing patient safety by fielding operationally tested medical information systems.

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

Title: 239F IM/IT Test Bed (Air Force)	FY 2018	FY 2019	FY 2020
Description: Provide realistic, risk controlled testing of designated core and interim medical applications in an operationally realistic environment. Critical component of ongoing capability development & fielding efforts, ensuring that each is supported by an independent, unbiased assessment of effectiveness, suitability, security, and survivability in a realistic operational environment as required by the FAR 46.103, DoD 5000, and AFI 99-103. The AFMISTB is a complementary service to existing MHS developmental, integration, interoperability, and security testing facilities, forming a logical test process continuum leading to effective deployment decisions. Outcomes include decreasing life-cycle costs of IM/IT products by catching errors early in the acquisition process where they are less costly to fix, and increasing patient safety by fielding operationally tested medical information systems.	0.000	-	-
Accomplishments/Planned Programs Subtotals	0.000	-	-

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

<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020 Base</u>	<u>FY 2020 OCO</u>	<u>FY 2020 Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A

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Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development	Project (Number/Name) 239F / IM/IT Test Bed (Air Force)
E. Performance Metrics N/A		

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 239G / MHS Information Portal (MIP)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
239G: MHS Information Portal (MIP)	2.803	1.384	1.461	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
A. Mission Description and Budget Item Justification												
The MIP enterprise solution supports Military Health System (MHS) strategic goals and facilitates informed decision-making through the delivery of robust information services and data in a timely, relevant, and actionable manner. MIP will serve as a hub for patient information, clinical decision support tools, medical readiness innovation, clinical research, and centralized, advanced operational and clinical analytics. MIP is a three-layer Defense Business System for reporting and analysis repository consisting of information used throughout the MHS from the operational to strategic level. Input from several source systems is aggregated, rationalized and normalized allowing a range of capabilities for users for near real-time reporting, deep dive analytics, and statistical analysis. MIP provides clinical information data warehousing (DW) modules, enabling Defense Health Agency to monitor, extract, and make available clinical/business data from Military Treatment Facilities (MTFs). Replaces Clinical Enterprise Intelligence Program (CEIP).												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: MHS Information Portal									1.384	1.461	-	
Description: MIP will serve as a hub for patient information, clinical decision support tools, medical readiness innovation, clinical research, and centralized, advanced operational and clinical analytics												
FY 2019 Plans: Continue MHS Data Customer Service Initiative: Increase customer engagement, productivity, and satisfaction by expanding collaboration tools, streamlining processes, and providing data valet service with data and tools experts.												
CHAS Global and COHORT consolidation to increase performance and provide efficiencies.												
Consolidate P4I capabilities/requirements into CEIP.												
FY 2019 to FY 2020 Increase/Decrease Statement: Decrease as funding and functionality are moved to other initiatives as part of the Military Health System Health Information Technology Enterprise Reform.												
Accomplishments/Planned Programs Subtotals									1.384	1.461	-	

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Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 239G / <i>MHS Information Portal (MIP)</i>	

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

<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BA-1, 0807793DHA: <i>MHS Tri-Service Information</i>	31.191	28.319	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

E. Performance Metrics

Each program establishes performance measurements which are usually included in the MHS IT Annual Performance Plan. Program cost, schedule and performance are measured periodically using a systematic approach. The results of these measurements are presented to management on a regular basis in various as part of the Integrated Product and Process Development (IPPD) process, In Process Reviews (IPRs), or other reviews to determine program effectiveness and provide new direction as needed to ensure the efficient use of resources. Performance metrics for specific projects may be viewed at the OMB Federal IT Dashboard website.

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Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 239H / <i>IM/IT Test Bed (Air Force) at DHA</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
239H: <i>IM/IT Test Bed (Air Force) at DHA</i>	1.769	2.141	2.686	2.740	-	2.740	2.795	2.851	2.908	2.966	Continuing	Continuing
A. Mission Description and Budget Item Justification Continue to provide realistic, risk controlled testing of designated core and interim medical applications in an operationally realistic environment. Critical component of ongoing capability development & fielding efforts, ensuring that each is supported by an independent, unbiased assessment of effectiveness, suitability, security, and survivability in a realistic operational environment as required by the FAR 46.103, DoD 5000, and AFI 99-103. The AFMISTB is a complementary service to existing MHS developmental, integration, interoperability, and security testing facilities, forming a logical test process continuum leading to effective deployment decisions. Outcomes include decreasing life-cycle costs of IM/IT products by catching errors early in the acquisition process where they are less costly to fix, and increasing patient safety by fielding operationally tested medical information systems. Previously reported under initiative IM/IT Test Bed (Air Force) Project Code 239F. Operational control of funding was transferred from Air Force Medical Information Technology (IT) to Defense Health Agency Health Information Technology (DHA HIT) with the stand up of Defense Health Agency beginning in FY16. However, functionality for operational testing will remain with Air Force Medical IT. Funding will be transferred to Air Force Medical IT during year of execution.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Operational Testing Service									2.141	2.686	2.740	
Description: A dedicated operational testing service, Test Bed conduct tests on various Air Force Medical Systems (AFMS). It provides risk controlled testing for designated core & interim medical applications in an operationally realistic environment.												
FY 2019 Plans: As in prior years, DHA will transfer funding to AF Medical IT during year of execution. AF will continue to test the DHMSM Electronic Health Record, JOMIS, Legacy TMIP, DMIX and HAIMS. Multi-Service Operational Test and Evaluation(s) will be conducted for the DHMSM Fixed Facility sites and the JOMIS Operational Medicine locations. Plans are to continue capability development & fielding efforts for half a dozen other ACAT III programs, initiate the Risk Management Framework reaccreditation for AF SG5T VPN for virtualization of IT Test Bed, and participate in at least half a dozen AF SG HPTs and requirement reviews, similar to FY18.												
FY 2020 Plans: As in prior years, DHA will transfer funding to AF Medical IT during year of execution. AF will continue to test the DHMSM Electronic Health Record, JOMIS, Legacy TMIP, DMIX and HAIMS. Multi-Service Operational Test and Evaluation(s) will be conducted for the DHMSM Fixed Facility sites and the JOMIS Operational Medicine locations. Plans are to continue capability												

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019
development & fielding efforts for half a dozen other ACAT III programs, initiate the Risk Management Framework reaccreditation for AF SG5T VPN for virtualization of IT Test Bed, and participate in at least half a dozen AF SG HPTs and requirement reviews, similar to FY18.			
FY 2019 to FY 2020 Increase/Decrease Statement: Inflation.			
Accomplishments/Planned Programs Subtotals		2.141	2.686
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Operational control of funding was transferred from Air Force Medical Information Technology (IT) to Defense Health Agency Health Information Technology (DHA HIT) with the stand up of Defense Health Agency beginning in FY16. However, functionality for operational testing will remain with Air Force Medical IT. Funding will be transferred to Air Force Medical IT during year of execution.			
E. Performance Metrics As determined by and based on the requirements for Air Force Medical IT operational testing.			

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COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283C: <i>Medical Operational Data System (MODS) (Army)</i>	8.393	2.606	2.732	2.759	-	2.759	2.787	2.842	2.899	2.957	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Army Medical Command received PE 0605013 funding for the Medical Operational Data System (MODS) to deploy modernized data visualization capabilities to enhance Army Unit and Individual Medical Readiness Reporting. MODS provides Army leadership with a responsive and reliable human resource and readiness information management data system for all categories of military and civilian medical and support personnel. MODS provide Tri-Service support through applications such as Electronic Profile, Behavioral Health, and Medical Education.

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

	FY 2018	FY 2019	FY 2020
Title: Medical Operational Data System (MODS)	2.606	2.732	2.759
Description: Information management system to provide responsive and reliable human resource and medical readiness data for all categories of military and civilian medical and support personnel.			
FY 2019 Plans: FY 2019 funds will be used to respond to Milestone Decision Authority decisions to add new capabilities, significantly enhance, and technically upgrade existing capabilities, and use federally funded research and development center resources for system engineering and acquisition effectiveness services. These technology upgrades will support the system's ability to help strengthen the scientific basis for decision-making in patient safety and quality performance within the MHS.			
FY 2020 Plans: FY 2020 plans continue efforts as outlined in FY 2019.			
FY 2019 to FY 2020 Increase/Decrease Statement: Pricing adjustment.			
Accomplishments/Planned Programs Subtotals		2.606	2.732
			2.759

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

<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020 Base</u>	<u>FY 2020 OCO</u>	<u>FY 2020 Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• BA-1, 0807781HP: <i>Non-Central Information Management/Information Technology</i>	13.385	13.628	13.878	-	13.878	13.937	14.076	14.358	-	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019	
Appropriation/Budget Activity 0130 / 2				R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 283C / <i>Medical Operational Data System (MODS) (Army)</i>			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BA-3, 0807721HP: <i>Replacement/Modernization</i>	0.300	0.400	0.200	-	0.200	0.202	0.204	0.208	-	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
Select the business, technical, and contract actions that will minimize cost, reduce program risk, and remain within schedule while meeting program objectives.											
E. Performance Metrics											
1. MEASURE: Data Warehouse reduces total number of database maintenance hours. METRIC: % database maintenance hours = number of monthly database maintenance hours/total database maintenance hours of previous year average.											
2. MEASURE: Data Warehouse supports queries and reports with few data errors (information quality/accuracy). METRIC: % of reports and queries that contain data errors = total number of reports and queries with data errors /total number of reports and queries.											
3. MEASURE: Data Warehouse provides the data needed by users and applications (information quality/completeness). METRIC: % post-Data Warehouse = total number (post-Data Warehouse) queries and reports/total number (pre + post-Data Warehouse) queries and reports.											
4. MEASURE: Three-Tier Object Oriented Architectural Design (3TOOAD) benefits are reduced costs for implementation of new functionalities. METRIC: % of labor cost = cost of MSR for functional implementation/average cost of similar MSR from previous year(s).											
5. MEASURE: Organizational and individual impact of Data Warehouse, 3TOOAD, and Robust Business Intelligence. METRIC: >= 8.5 avg. benchmark score (0 to 10 scale) on quarterly quality and impact surveys from users.											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 283D / Army Medicine CIO Management Operations			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283D: Army Medicine CIO Management Operations	1.175	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												
The Army Medical Command received PE 0605013 funding to identify, explore, and demonstrate key information technologies to overcome medical and military unique technology barriers. The Army Medicine CIO Management Operations program includes development projects for Army service level support. Specifically, the Army Medicine CIO Management Operations encompasses the Army Medical CIO's Information Management/Information Technology (IM/IT) development activities to ensure compliance with Congressional, Office of Management and Budget, DoD, and Military Health System requirements.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: 283D - Army Medicine CIO Management Operations									0.000	0.000	0.000	
Description: The Army Medicine CIO Management Operations will provide system development, engineering, and testing requirements of interim Army medical applications in an operationally realistic, risk controlled test environment to comply with Congressional, Office of Management and Budget, DoD, and Military Health System requirements.												
FY 2019 Plans: No funding programmed.												
FY 2020 Plans: No funding programmed.												
FY 2019 to FY 2020 Increase/Decrease Statement: N/A												
Accomplishments/Planned Programs Subtotals									0.000	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• BA-1, 0807781HP: Non-Central Information Management/Information Technology	19.430	8.705	3.936	-	3.936	5.626	8.143	11.088	-	Continuing	Continuing	
• BA-1, 0807721HP: Replacement/Modernization	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing	

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019	
Appropriation/Budget Activity 0130 / 2				R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 283D / <i>Army Medicine CIO Management Operations</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2020</u>	<u>FY 2020</u>	<u>FY 2020</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Complete</u>	<u>Total Cost</u>
• BA-1, 0807798HP: <i>Management Headquarters</i>	2.784	2.830	2.880	-	2.880	2.879	2.882	2.884	-	Continuing	Continuing
• BA-1, 0807796HP: <i>Base Operations</i>	0.522	0.536	0.536	-	0.536	0.536	0.536	0.536	-	Continuing	Continuing
Remarks Controls for AMCMO were reduced to support the Desktop to Datacenter initiative that transferred funding to DHA HIT, per the FY18 POM MOA.											
D. Acquisition Strategy Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.											
E. Performance Metrics Periodic management evaluation based on ability to provide system development, engineering, and testing requirements of new Army medical applications.											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 283H / Psychological and Behavioral Health - Tools for Evaluation, Risk, and Management (PBH-TERM)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283H: Psychological and Behavioral Health - Tools for Evaluation, Risk, and Management (PBH-TERM)	0.125	0.077	0.080	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
A. Mission Description and Budget Item Justification												
The US Army Medical Command (MEDCOM) and Defense Centers of Excellence (DCoE) have partnered to develop this information technology project for joint Service level support. The PBH-TERM platform addresses two congressionally mandated initiatives including the behavioral health management within the Warrior Transition Command (GH risk Management module/BHRM and within primary care settings (FIRST-STEPS). Further development efforts allow expansion of capabilities to deliver ongoing user support and training via web-based modules within PBH-TERM and will provide costs casings in terms of staffing requirements, conferencing and reporting.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Psychological and Behavioral Health – Tools for Evaluation, Risk, and Management (PBH-TERM)									0.077	0.080	0.000	
Description: PBH-TERM is a web-based psychological and Behavioral Health (BH) information technology platform, which supports evidence-based, standardized and integrated BH risk and case management initiatives as well as program evaluation for the Warrior Transition Command and Patient/Soldier-Centered BH (PCBH) care in primary care settings.												
FY 2019 Plans: FY 2019 funds will be used to support any further enhancements that may be required after the Behavioral Health Recovery Management(BHRM) self-service functionality is put into production during Fiscal Year 2018.												
FY 2020 Plans: No funding programmed.												
FY 2019 to FY 2020 Increase/Decrease Statement: End of program.												
Accomplishments/Planned Programs Subtotals									0.077	0.080	0.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency			Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 283H / <i>Psychological and Behavioral Health - Tools for Evaluation, Risk, and Management (PBH-TERM)</i>	

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

<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BA-1, 0807781HP: <i>Non-Central Information Management/Information Technology</i>	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing
• BA-1, 0807714HP: <i>other health Activities</i>	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing
• BA-1, 0807793DHA: <i>MHS Tri-Service Information Management/Information Technology (IM/IT)</i>	0.074	0.074	0.074	-	0.074	0.074	0.074	0.074	-	Continuing	Continuing

Remarks

BAG 104 funding moved to DHA starting on 01 Oct 2015 per FY 2016 POM MOA.

BAG 103 funding moved to DHA starting on 01 Oct 2016 per FY 2017 POM MOA. Moving DCoE to DHA (BA-1, 0807714HP)

D. Acquisition Strategy

Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting congressional mandates and program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

E. Performance Metrics

FY 2018

Measure: Improved user efficiencies through automation of support/training modules and guidelines.

Baseline: January 2014, 25% user efficiency rating.

Target: March 2018, 90% user efficiency rating.

Source: Audits and analysis performed by Defense Centers of Excellence, Patient-Centered Behavioral Health personnel.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 283J / Antibiotic Resistance Monitoring and Research (ARMoR-D)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283J: Antibiotic Resistance Monitoring and Research (ARMoR-D)	2.460	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Note In FY 2018, the title of project code 283J is changed from "Multi-Drug Resistant Surveillance Network (MSRN)" to "Antibiotic Resistance Monitoring and Research (ARMoR-D)".												
A. Mission Description and Budget Item Justification The Army Medical Command received PE 0605013 funding to identify, explore, and demonstrate key information technologies to overcome medical and military unique technology barriers. The Antibiotic Resistance Monitoring and Research (ARMoR-D) program includes development projects for Army Service level support. Specifically, the ARMoR-D is the Enterprise Antibiotic Resistant Bacteria program, which collects, characterizes, and conducts epidemiologic surveillance of highly resistant bacteria. ARMoR-D promotes best clinical practices, enhances performance improvement, and focuses infection control strategies.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Antibiotic Resistance Monitoring and Research (ARMoR-D)									0.000	0.000	0.000	
Description: ARMoR-D is the Enterprise effort to collect and characterize bacterial isolates to inform best practice, such as patient management and antibiotic selection.												
FY 2019 Plans: No funding programmed.												
FY 2020 Plans: No funding programmed.												
FY 2019 to FY 2020 Increase/Decrease Statement: N/A.												
Accomplishments/Planned Programs Subtotals									0.000	0.000	0.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019	
Appropriation/Budget Activity 0130 / 2				R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 283J / <i>Antibiotic Resistance Monitoring and Research (ARMoR-D)</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2020</u>	<u>FY 2020</u>	<u>FY 2020</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Complete</u>	<u>Total Cost</u>
• BA-1, 0807781HP: <i>Non-Central Information Management/ Information Technology</i>	0.757	0.684	0.700	-	0.700	0.719	0.735	0.829	-	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.											
E. Performance Metrics											
Business metrics:											
1. Turn-around time from receipt of isolate shipment to initial test results being available on ARMoR-D System.											
Current Performance : 2 weeks											
Target Performance: 4 days											
Data Source: Comparison of isolate receipt date and test result date											
2. Time to prepare monthly Antibigram Report											
Current Performance: 8 weeks											
Target Performance: 2 weeks											
Data Source: Number of days following the end of the month that the report is distributed/posted											
3. Antibigram (or other major product) Report Views											
Current Performance: N/A (not currently implemented)											
Target Performance: 30 per month											
Data Source: Server logs											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 283L / Pharmacovigilance Defense Application System			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283L: Pharmacovigilance Defense Application System	1.024	0.337	0.350	0.350	-	0.350	0.350	0.350	0.357	0.364	Continuing	Continuing
A. Mission Description and Budget Item Justification												
The Army Medical Command received PE 0605013 funding to identify, explore, and demonstrate key information technologies to overcome medical and military unique technology barriers. The Pharmacovigilance Defense Application System (PVDAS) provides military providers Defense Patient Safety reports from the Food and Drug Administration (FDA) after a drug’s release to market.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Pharmacovigilance Defense Application System (PVDAS)									0.337	0.350	0.350	
Description: The Pharmacovigilance Defense Application System (PVDAS) provides military providers Defense Patient Safety reports from the Food and Drug Administration (FDA) after a drug’s release to market.												
FY 2019 Plans: Funding will be used to implement the testing of the drug surveillance and data visualization capabilities that were developed during Fiscal Year 2018.												
FY 2020 Plans: Funding will be used to implement the testing of the drug surveillance and data visualization capabilities that were developed during Fiscal Year 2019.												
FY 2019 to FY 2020 Increase/Decrease Statement: N/A												
Accomplishments/Planned Programs Subtotals									0.337	0.350	0.350	
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• BA-1, 0807781HP: Non-Central Information Management/Information Technology	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing	
• BA-1, 0807714HP: Other Health Activities	0.974	1.036	2.048	-	2.048	1.134	1.222	1.258	-	Continuing	Continuing	

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019	
Appropriation/Budget Activity 0130 / 2				R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 283L / <i>Pharmacovigilance Defense Application System</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2020</u>	<u>FY 2020</u>	<u>FY 2020</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Complete</u>	<u>Total Cost</u>
• BA-1, 0807798HP: <i>Management Headquarters</i>	1.550	1.600	1.650	-	1.650	1.700	1.700	1.752	-	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.											
E. Performance Metrics											
1. MEASURE: All Tier 2 tickets were resolved as required. METRIC: Maintain application including software components resolving 100% of all problems resolvable at the Tier 2 level											
2. MEASURE: Hosted Environment up time maintained at 98%. METRIC: Provide an operational readiness up time of 98% for the hosted environment, where the application is never inoperable for longer than 3 business days.											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 283M / Business Intelligence Competency Center (BICC)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283M: Business Intelligence Competency Center (BICC)	1.488	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 The Army Medical Command received PE 0605013 funding to identify, explore, and demonstrate key information technologies to overcome medical and military unique technology barriers. The Business Intelligence Competency Center (BICC) is the business intelligence capability and management processes, focused on providing actionable data at the point of service that facilitates provisioning of actionable information for MTF Commanders, AMEDD Leadership and end users.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Business Intelligence Competency Center (BICC)									0.000	0.000	0.000	
Description: The Business Intelligence Competency Center (BICC) is the business intelligence capability and management processes, focused on providing actionable data at the point of service that facilitates provisioning of actionable information for MTF Commanders, AMEDD Leadership and end users.												
FY 2019 Plans: No funding programmed.												
FY 2020 Plans: No funding programmed.												
FY 2019 to FY 2020 Increase/Decrease Statement: N/A.												
Accomplishments/Planned Programs Subtotals									0.000	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• BA-1, 0807781HP: Non-Central Information Management/Information Technology	0.000	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing	
• BA-3, 0807721HP: Replacement/Modernization	0.000	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing	

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency			Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 283M / <i>Business Intelligence Competency Center (BICC)</i>	

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

<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

O&M Funding transferred to DHA starting on 01OCT2015, per FY16POM MOA.

D. Acquisition Strategy

Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

E. Performance Metrics

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 283N / <i>Corporate Dental System (CDS)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283N: <i>Corporate Dental System (CDS)</i>	0.709	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 The Army Medical Command received PE 0605013 funding to identify, explore, and demonstrate key information technologies to overcome medical and military unique technology barriers. The Corporate Dental System (CDS) is the Dental digital web based DICOM image capture and viewing application.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2018	FY 2019	FY 2020
Title: Corporate Dental System (CDS)										0.000	-	-
Description: The Corporate Dental System (CDS) is the Dental digital web based DICOM image capture and viewing application.												
Accomplishments/Planned Programs Subtotals										0.000	-	-
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• BA-1, 0807781HP: <i>Non-Central Information Managment/ Information Technology</i>	0.112	0.114	0.115	-	0.115	0.117	-	-	-	Continuing	Continuing	
• BA-1, 0807715HP: <i>Dental Care Activities</i>	13.051	13.386	13.656	-	13.656	13.851	-	-	-	Continuing	Continuing	
• BA-3, 0807721HP: <i>Replacement/Modernization</i>	0.600	0.600	0.600	-	0.600	0.600	-	-	-	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.												
E. Performance Metrics												
N/A												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 283P / Mobile HealthCare Environment (MHCE)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
283P: Mobile HealthCare Environment (MHCE)	0.662	0.402	0.331	0.473	-	0.473	0.364	0.378	0.385	0.393	Continuing	Continuing
A. Mission Description and Budget Item Justification The Army Medical Command received PE 0605013 funding to identify, explore, and demonstrate key information technologies to overcome medical and military unique technology barriers. The Mobile HealthCare Environment (MHCE) is the capability of secure, bidirectional messaging and data exchange between patients, providers and clinics using any electronic device.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Mobile HealthCare Environment (MHCE)									0.402	0.331	0.473	
Description: The Mobile HealthCare Environment (MHCE) is the capability of secure, bidirectional messaging and data exchange between patients, providers and clinics using any electronic device.												
FY 2019 Plans: FY 2019 funding will be utilized to finalize the expansion of the MHCE functionality deployed in FY 2017-2018, which will be the data exchange with other systems, specifically a patient's personal health record, and enterprise systems such as their electronic health record. These system enhancements will support the Army's ability to help strengthen the scientific basis for decision-making in patient safety and quality performance within the Military Health System.												
FY 2020 Plans: FY 2020 plans continue efforts as outlined in FY 2019.												
FY 2019 to FY 2020 Increase/Decrease Statement: N/A												
Accomplishments/Planned Programs Subtotals									0.402	0.331	0.473	
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• BA-1, 0807781HP: Non-Central Information Management/Information Technology	1.416	1.477	1.551	-	1.551	1.561	1.571	1.571	-	Continuing	Continuing	
Remarks												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 283P / <i>Mobile HealthCare Environment (MHCE)</i>
<u>D. Acquisition Strategy</u> Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions. <u>E. Performance Metrics</u> N/A		

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 385A / <i>Integrated Electronic Health Record Inc 1 (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
385A: <i>Integrated Electronic Health Record Inc 1 (Tri-Service)</i>	146.417	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Project MDAP/MAIS Code: 465												
A. Mission Description and Budget Item Justification The integrated Electronic Health Record (iEHR) was approved to provide seamless integrated sharing of electronic health data between the DoD and Department of Veterans Affairs (VA). Commensurate with the OSD AT&L Acquisition Decision Memoranda (ADM), dated July 21, 2013 and January 2, 2014, the former joint DoD and VA iEHR program has been restructured within the DoD to pursue two separate but related healthcare information technology efforts, the DoD Healthcare Management System Modernization (DHMSM) program and a redefined iEHR program. These programs report through the PEO DoD Healthcare Management Systems (DHMS) to the USD (AT&L). iEHR RDT&E is reported under the program element 0605013 through FY 2013 inclusive, but will be reported under new program element 0605023 for FY 2014 and out.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Integrated Electronic Health Record (iEHR) Inc 1 (Tri-Service)									0.000	-	-	
Description: The iEHR primary role is health care delivery services. iEHR is a collaborative effort between the DoD and VA to share Health Care Resources to improve access to, and quality and cost effectiveness of, health care as mandated by law. This investment is deeply embedded in the MHS Enterprise Roadmap as both Departments have need for modernization/ replacement of existing legacy systems. This investment will use a combination of an open architecture approach, and the purchase (in some instances) of GOTS and COTS products.												
Accomplishments/Planned Programs Subtotals									0.000	-	-	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks												
D. Acquisition Strategy N/A												
E. Performance Metrics None planned.												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 386A / <i>Virtual Lifetime Electronic Record (VLER) HEALTH (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
386A: <i>Virtual Lifetime Electronic Record (VLER) HEALTH (Tri-Service)</i>	14.464	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

The primary goal of the VLER Health initiative is to enable the secure sharing of health information (i.e., demographic and clinical data) between DoD and external Federal and private sector partners which meets Meaningful Use (MU) requirements to improve healthcare quality, safety, and efficiency. By electronically sharing health information using national standards, that information can support tracking key clinical conditions, communicating that information to better coordinate care, and engaging patients in their own care. The VLER Health initiative provides clinicians with the most up-to-date information, potentially reducing redundant diagnostic tests, medical errors, paperwork and handling, and overall healthcare costs. These benefits, in turn, align with the MHS quadruple aim by ensuring that the military force is medically ready to deploy; the military beneficiary population remains healthy through focused prevention; patient care is convenient, equitable, safe, and of the highest quality; and the total cost of healthcare is reduced through the reduction of waste and focus on quality.

VLER Health funding will be reflected in the Integrated Electronic Health Record Program Element 0605023 in FY 2014 and out.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Virtual Lifetime Electronic Record (VLER) HEALTH (Tri-Service)	0.000	-	-
Description: Work with Department of Veterans Affairs (VA), Department of Health & Human Services (HHS), and Private Sector to expand VLER.			
Accomplishments/Planned Programs Subtotals	0.000	-	-

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

Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• BA-1, 0807793HP: <i>MHS Tri-Service Information</i>	-	-	-	-	-	-	-	-	-		

Remarks

D. Acquisition Strategy

Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 386A / <i>Virtual Lifetime Electronic Record (VLER) HEALTH (Tri-Service)</i>

E. Performance Metrics

Each program establishes performance measurements which are usually included in the MHS IT Annual Performance Plan. Program cost, schedule and performance are measured periodically using a systematic approach.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 423A / <i>Defense Center of Excellence (FHP&RP)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
423A: <i>Defense Center of Excellence (FHP&RP)</i>	3.464	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Note

In FY15, transferred from FHP&R (Project Code 423A) to Army (Project Code 423B).

A. Mission Description and Budget Item Justification

The Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCoE) is a United States Department of Defense (DoD) organization that provides guidance across DoD programs related to psychological health (PH) and traumatic brain injury (TBI) issues. The organization's mission statement is: "DCoE assesses, validates, oversees and facilitates prevention, resilience, identification, treatment, outreach, rehabilitation, and reintegration programs for PH and TBI to ensure the Department of Defense meets the needs of the USA's military communities, warriors and families." DCoE focuses on education and training; clinical care; prevention; research; and service member, family and community outreach. In collaboration with the Department of Veterans Affairs, the organization supports the Department of Defense's commitment of caring for service members from the time they enter service and throughout the completion of their service. DCoE also seeks to mitigate the stigma that still deters some from reaching out for help for problems such as post-traumatic stress disorder and TBI. The organization has a leadership role in collaborating with a national network of external entities[1] including non-profit organizations,[2] other DoD agencies, academia, Congress,[3] military services and other federal agencies.[4] Public health service and civil service workers, including personnel from the Department of Veterans Affairs and individuals from all the military services as well as contract personnel comprise the staff of DCoE. DCoE's goals include providing the necessary resources to facilitate the care of service members who experience TBI or PH concerns and ensuring that appropriate standards of care exist and are maintained across the Department of Defense. DCoE seeks to create, identify and share best practices, conducting necessary pilot or demonstration projects to better inform quality standards when best practices or evidence based recommendations are not readily available. Other DCoE goals include ensuring that program standards are executed and quality is consistent and creating a system in which individuals across the United States expect and receive the same level and quality of service regardless of their service branch, component, rank or geographic location. DCoE comprises eight directorates and six component centers responsible for TBI/PH issues. These DCoE entities execute programs, provide clinical care, conduct research, identify and share best practices and provide strategic planning for PH and TBI across the DoD.

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

	FY 2018	FY 2019	FY 2020
Title: Defense Center Of Excellence (FHP&RP)	0.000	-	-
Description: DCoE programs and products are developed to drive innovation across the continuum of care by identifying treatment options and other clinical and research methods that deliver superior outcomes. Products range from tools customized for health care providers to electronic resources for service members and families.			
Accomplishments/Planned Programs Subtotals	0.000	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 423A / <i>Defense Center of Excellence (FHP&RP)</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy N/A		
E. Performance Metrics N/A		

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 423B / Defense Center of Excellence (Army)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
423B: Defense Center of Excellence (Army)	0.996	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Note Transferred from FHP&R (Project Code 423A) to Army (Project Code 423B) in FY 2015. Transferred from Army (Project Code 423B) to DHA (Project Code 423C) in FY 2017.												
A. Mission Description and Budget Item Justification The Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury is administratively managed under the US Army Medical Command (MEDCOM) that provides guidance across DoD programs related to psychological health (PH) and traumatic brain injury (TBI) issues. DCoE focuses on education and training; clinical care; prevention; research; and Service Member, Family, and community outreach. In collaboration with the Department of Veterans Affairs, DCoE supports the DoD’s commitment of caring for Service members from the time they enter service and throughout the completion of their service. DCoE also seeks to mitigate the stigma that still deters some from reaching out for help for problems such as post-traumatic stress disorder and TBI. The organization has a leadership role in collaborating with a national network of external entities to include: 1- Non-profit organizations, 2- Other DoD agencies, academia, and Congress, 3- Military services and other federal agencies and, 4- Public Health Service and civil service workers, to include personnel from the Department of Veterans Affairs and individuals from all military services as well as contractor personnel assigned to DCoE. DCoE’s goals include providing the necessary resources to facilitate the care of Service members who experience TBI and/or PH concerns and ensuring that appropriate standards of care exist and are maintained across the DoD. DCoE seeks to create, identify, and share best practices; conducting necessary pilot or demonstration projects to better inform quality standards when best practices or evidence-based recommendations are not available. Additional goals include ensuring that program standards are executed and quality is consistent for all individuals throughout the United States so that they receive the same level and quality of service regardless of service branch, component, rank, or location. DCoE is comprised of a HQs element and three component centers responsible for PH/TBI issues. These DCoE directorates and centers execute programs, provide clinical care, conduct research, and identify and share best practices and provide strategic planning for all PH and TBI throughout the DoD. Management of IMIT funds are transferred from Army to DHA effective in FY 2017.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Defense Center of Excellence (Army)									0.000	0.000	0.000	
Description: DCoE programs and products are developed and implemented to drive innovation across the continuum of care by identifying treatment options and other clinical and research methods that deliver superior healthcare outcomes. Products range from tools customized for healthcare providers to electronic resources such as online games and mobile apps for Service Members and their Families.												
FY 2019 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency							Date: February 2019				
Appropriation/Budget Activity 0130 / 2			R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>			Project (Number/Name) 423B / <i>Defense Center of Excellence (Army)</i>					
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2018	FY 2019	FY 2020		
No funding programmed.											
FY 2020 Plans: No funding programmed.											
FY 2019 to FY 2020 Increase/Decrease Statement: N/A											
Accomplishments/Planned Programs Subtotals							0.000	0.000	0.000		
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020 Base</u>	<u>FY 2020 OCO</u>	<u>FY 2020 Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• BA-1, 0807781HP: <i>Non-Central Information Management/Information Technology</i>	-	-	-	-	-	-	-	-	-		
• BA-1, 0807724HP: <i>Military Unique - Other Medical</i>	-	-	-	-	-	-	-	-	-		
Remarks											
Transferred from Army (Project Code 423B) to DHA (Project Code 423C) in FY 2017.											
D. Acquisition Strategy											
Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.											
E. Performance Metrics											
Each program establishes performance measurements. Program cost, schedule and performance are measured periodically using a systematic approach.											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 423C / Defense Center of Excellence (T2T/PBH TERM) (DHA)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
423C: Defense Center of Excellence (T2T/PBH TERM) (DHA)	1.318	1.344	1.422	1.450	-	1.450	1.478	1.509	1.539	1.570	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCoE) provides the Military Health System with current and emerging psychological health and traumatic brain injury clinical and educational information. DCOE identifies gaps and prioritize needs in psychological health and TBI research, and then translate that research into clinical practice to improve patient outcomes.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Defense Center of Excellence (DHA) T2T and PBH TERM Description: DCoE programs and products are developed and implemented to drive innovation across the continuum of care by identifying treatment options and other clinical and research methods that deliver superior healthcare outcomes. Products range from tools customized for healthcare providers to electronic resources such as online games and mobile apps for Service Members and their Families. Telehealth and Technology Toolkit (T2T):This project will organize a toolkit of components in the areas of PH and telehealth that can be used both within and outside DoD. The focus of the toolkit is NOT to develop duplicative components, but allow room for collaboration and remote access to tools. The T2 Toolkit consists of mobile applications, 3-Dimensional applications (apps) , and supporting websites. These applications will combine to create a system that covers many areas of Psychological Health (PH) for the Department of Defense, family members. Psychological and Behavioral Health – Tools for Evaluation, Risk and Management (PBH-TERM) is a web-based psychological and behavioral health (BH) information technology application which supports evidence-based, standardized and integrated BH initiatives and program evaluation. FY 2019 Plans: Develop six mobile applications, three websites, 2 3D applications and one data warehouse. Complete the deployment of the progressive web application framework to Fort Detrick. Create mobile & web microservices to further develop the mobile platform into the DHA mobile solution with a low code environment. This contains reusable components that any developer can use thus reducing the amount of coding. FY 2020 Plans:	1.344	1.422	1.450

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019	
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 423C / <i>Defense Center of Excellence (T2T/ PBH TERM) (DHA)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019
Develop six mobile applications, three websites, 2 3D applications and one data warehouse. Further develop microservices for the web/mobile platform.			
FY 2019 to FY 2020 Increase/Decrease Statement: Inflation.			
Accomplishments/Planned Programs Subtotals		1.344	1.422
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.			
E. Performance Metrics Each program establishes performance measurements. Program cost, schedule and performance are measured periodically using a systematic approach.			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 435A / <i>NICOE Continuity Management Tool</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
435A: <i>NICOE Continuity Management Tool</i>	2.855	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

The NiCoE Continuity Management Tool (NCMT) is a business intelligence tool to perform healthcare modeling and analysis of NiCoE activities.

Major capabilities defined by the NiCoE in Jun 2009 and refined in Jun 2010 prior to the program procurement in Sep 2010, are subsystems that make up the NCMT end-to-end system, and were prioritized in the following order: Continuity Management Subsystem, Scheduling Subsystem, Clinical Subsystem, Research Subsystem, Training and Education Subsystem, Administration Subsystem.

Continuity Management Subsystem: Records every interaction with a particular Warrior and his or her Family as one entity to manage initial contact, referral, screening, intake, pre-admission, admission, discharge and follow-up processes.

Scheduling Subsystem: Captures, organizes, displays the complex schedules of the NiCoE. Used to manage patient appointments, the utilization of facility resources including treatment rooms, modalities, provider staff and support staff.

Clinical Subsystem: A clinical application and clinical database that includes the functions that allow the user to store, classify, analyze, retrieve, interpret, present clinical data. Allows the visualization of all of the various components of the patient's health record: radiology, pathology, lab results, neurological assessments, etc.

Research Subsystem: Consists of the research database and the applications that allow the user to store, classify, analyze, retrieve, interpret, present data. Allows NiCoE to aggregate data from disparate systems, both within the NiCoE and from partner organizations, helping the research move faster, with more agility, and with purpose and direction supported by validated facts. Allows researchers to address many data challenges from a single system and transforms the way they do research.

Training and Education Subsystem: Provides the ability to share relevant research, diagnosis, treatment information with authorized users.

Administration Subsystem: Provides the ability to manage a portfolio of projects related to continuity of care, clinical operations, research, training and education functions in the NiCoE.

The NCMT is supported by Three Contracts: Hosting (Provides Hardware, Software, Maintenance), System Integration (Implements NiCoE Functional Requirements, Turns NiCoE Ideas and Goals into Computer Screens, Templates, Applications – Capabilities) and Decision Support (Acquisition Management, Requirements Definition, Implementation Planning).

The NiCoE's missions are to:

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency									Date: February 2019		
Appropriation/Budget Activity 0130 / 2				R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 435A / NICOE Continuity Management Tool			
1) Explore novel, promising, and futuristic solutions to the complex spectrum of combat brain injury from TBI to posttraumatic stress disorder (PTSD) and other psychological injuries;											
2) Ensure – through continuous outreach and high quality health care – that America embraces those who have served and sacrificed so much on its behalf; and											
3) Train the next generation of providers in the most effective approaches to prevention, detection, and treatment options.											
Currently the established AHLTA specification does not adequately support the specialized care and continuity management integration necessary to support NICoE clinical operations and research. Additionally, AHLTA does not support the data mining and pattern recognition requirements of the NICoE.											
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020
Title: NICOE Continuity Management Tool									0.000	-	-
Description: The NCMT is a tool designed to perform healthcare modeling and analysis of NICoE activities. Major capabilities include Continuity Management, Scheduling, Clinical Database, Research Database, Training and Education, and Administration.											
Accomplishments/Planned Programs Subtotals									0.000	-	-
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• 4187 807783: NCMT	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4187 807781: NCMT	4.332	-	-	-	-	-	-	-	-	Continuing	Continuing
• 1690 807781: HEIS	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4859 807781: JMED	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4940 807781: JTF CMI	43.267	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4940 807720: JTF CMI	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4273 807781: Engineering and Deployment	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4280 807721: Engineering and Deployment	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4361 807781: IA Operational Resiliency	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4126 807781: Computer Network Defense	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019	
Appropriation/Budget Activity 0130 / 2				R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 435A / <i>NICOE Continuity Management Tool</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2020</u>	<u>FY 2020</u>	<u>FY 2020</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Complete</u>	<u>Total Cost</u>
• 4111 807781: <i>Computer Network Defense</i>	0.502	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4165 807781: <i>Computer Network Defense</i>	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4177 807781: <i>Computer Network Defense</i>	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
• 4364 807781: <i>Workforce Development</i>	0.000	-	-	-	-	-	-	-	-	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
This requirement is currently contracted through the USA Medical Research Activity. The vender is Evolvent Technologies Inc.											
E. Performance Metrics											
This performance metrics or milestones shall include, but is not limited to:											
Coordination with Government representatives Review, evaluation and transition of current support services Transition of historic data to new contractor system Government-approved training and certification process Transfer of hardware warranties and software licenses Transfer of all System/Tool documentation to include, at a minimum: user manuals, system administration manuals, training materials, disaster recovery manual, requirements traceability matrix, configuration control documents and all other documents required to operate, maintain and administer systems and tools If another contractor follows this contractor with work related to this work, this contractor will provide any developed source code (compiled and uncompiled, including all versions, maintenance updates and patches) with written instructions for the source code on which this contractor has worked, so that an experienced software engineer, previously not familiar with the source code can understand and efficiently work with the source code. In addition, this contractor will provide for 30 days, a software engineer (or person of comparable work level) with significant experience working with the source code, to assist the new contractor Orientation phase and program to introduce Government personnel, programs, and users to the Contractor's team, tools, methodologies, and business processes Disposition of Contractor purchased Government owned assets, including facilities, equipment, furniture, phone lines, computer equipment, etc. Transfer of Government Furnished Equipment (GFE) and Government Furnished Information (GFI), and GFE inventory management assistance Applicable TMA debriefing and personnel out-processing procedures Turn-in of all government keys, ID/access cards, and security codes.											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 446A / <i>Disability Mediation Service (DMS)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
446A: <i>Disability Mediation Service (DMS)</i>	1.286	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

Disability Mediation Service (DMS): The VTA (Veteran's Tracking Application) has been the primary system to track, record, and report data for the IDES (Integrated Disability Evaluation System) process. The VTA is scheduled to sun-set, by VA (Veterans Affairs), and the data is being moved to another application. Migration of VTA to another application creates the requirement to allow data exchange between Service non-medical case management and new VA DES (Disability Evaluation System) IT application. The BEC (Benefits Executive Council) is looking to create a DMS (Disability Mediation Service), which is an integrator between the Services and VA. The DMS will facilitate the improvement of non-medical case management tracking and IDES data/information management. It will eliminate redundant data entry within DoD (Department of Defense), improving data quality by capturing more data for operational reporting from the Services and WCP, decrease backlog by eliminating data entry duplication, and minimize impact to DoD Services by allowing the Services to continue using their existing/planned systems without requiring retraining on a new applications.

The DMS will be created from existing technology. It will provide a mediation service to help isolate each system from changes and uniqueness in the other systems and allow the Services and WCP to report and drill down on data that we capture during the exchange. This IT solution will not replace current DoD systems, but will require some modifications and enhancements to those systems to support the date exchange. WCP will support development costs for these efforts. Services will assume responsibility and POM costs for modifications, enhancements, and maintenance in the out years."

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

	FY 2018	FY 2019	FY 2020
Title: Disability Mediation Service (DMS)	0.000	-	-
Description: The VTA (Veteran's Tracking Application) has been the primary system to track, record, and report data for the IDES (Integrated Disability Evaluation System) process. The VTA is scheduled to sun-set, by VA (Veterans Affairs), and the data is being moved to another application. Migration of VTA to another application creates the requirement to allow data exchange between Service non-medical case management and new VA DES (Disability Evaluation System) IT application. The BEC (Benefits Executive Council) is looking to create a DMS (Disability Mediation Service), which is an integrator between the Services and VA.			
The DMS will facilitate the improvement of non-medical case management tracking and IDES data/information management. It will eliminate redundant data entry within DoD (Department of Defense), improving data quality by capturing more data for operational reporting from the Services and WCP, decrease backlog by eliminating data entry duplication, and minimize impact to DoD Services by allowing the Services to continue using their existing/planned systems without requiring retraining on a new applications.			
The DMS will be created from existing technology. It will provide a mediation service to help isolate each system from changes and uniqueness in the other systems and allow the Services and WCP to report and drill down on data that we capture during the			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019	
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 446A / <i>Disability Mediation Service (DMS)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019
exchange. This IT solution will not replace current DoD systems, but will require some modifications and enhancements to those systems to support the date exchange. WCP will support development costs for these efforts. Services will assume responsibility and POM costs for modifications, enhancements, and maintenance in the out years."			
Accomplishments/Planned Programs Subtotals		0.000	-
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy N/A			
E. Performance Metrics N/A			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480B / <i>Defense Medical Human Resources System (Internet) (DMHRSi) (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480B: <i>Defense Medical Human Resources System (Internet) (DMHRSi) (Tri-Service)</i>	0.585	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
 The Defense Medical Human Resources System – internet (DMHRSi) enables the Services to standardize and optimize the management of human resource assets across the Military Health System (MHS). DMHRSi is a Web-based system that enables improved decision making by facilitating the collection and analysis of critical human resource data. It standardizes medical human resource information and provides enterprise-wide visibility for all categories of human resources (Active Duty, Reserve, Guard, civilian, contractor, and volunteer medical personnel); improves reporting of medical personnel readiness and; streamlines business processes to improve data quality for management decision making and managing the business; provides Tri-Service visibility of associated labor costs and is source for personnel cost data.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Defense Medical Human Resources System (internet) (DMHRSi) (Tri-Service)	0.000	-	-
Description: The Defense Medical Human Resources System – internet (DMHRSi) enables the Services to standardize and optimize the management of human resource assets across the Military Health System (MHS). DMHRSi is a Web-based system that enables improved decision making by facilitating the collection and analysis of critical human resource data. It standardizes medical human resource information and provides enterprise-wide visibility for all categories of human resources (Active Duty, Reserve, Guard, civilian, contractor, and volunteer medical personnel); improves reporting of medical personnel readiness and; streamlines business processes to improve data quality for management decision making and managing the business; provides Tri-Service visibility of associated labor costs and is source for personnel cost data.			
Accomplishments/Planned Programs Subtotals	0.000	-	-

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

Remarks

D. Acquisition Strategy
 N/A

E. Performance Metrics
 N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 480C / Defense Medical Logistics Standard Support (DMLSS) (Tri-Service)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480C: Defense Medical Logistics Standard Support (DMLSS) (Tri-Service)	17.732	2.278	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
A. Mission Description and Budget Item Justification												
Purpose: DMLSS provides a standard Department of Defense (DoD) medical logistics system. DMLSS suite of applications provides healthcare driven capability to support medical logistics needs for critical medical commodities - pharmaceuticals and medical/surgical supplies across continuum of care from the battlefield to tertiary care at a major DoD military treatment facility (MTF). This capability is enabled by the partnership of the Defense Logistics Agency (DLA) – Troop Support Medical and the Military Health System (MHS) providing an industry to practitioner supply chain for the medical commodity. The DMLSS DLA Wholesale (DMLSS-W) applications are funded by DLA while the garrison medical treatment facilities and theater applications are funded by the Defense Health Program. Goal: The current DMLSS system provides full spectrum capability for medical logistics management. Benefits: Stock control, Prime Vendor operations, preparation of procurement documents, research and price comparison for products, property accounting, biomedical maintenance operations, capital equipment, property management, inventory, and a facility management application that supports the operations of a fixed MTF physical plant and supports the Joint Commission accreditation requirements. DMLSS, in coordination with Joint Operational Medicine Information Systems (JOMIS), is providing to Services and Combatant Commanders the logistics capabilities necessary to rapidly project and sustain joint medical capabilities for medical logistics management of theater medical materiel operations. Products deployed to the theater include the DMLSS Customer Assistance Module (DCAM), a medical logistics ordering tool that allows users to view their supplier’s catalog and generate electronic orders. Primarily focused on the theater environment, DCAM automates the Class VIII supply process at lower levels of care, and allows non-logisticians to electronically exchange catalog, order, and status information with their supply activity. The Joint Medical Asset Repository (JMAR) provides Enterprise asset visibility and business intelligence tool. JMAR is web-based application that provides Enterprise medical logistics (MEDLOG) asset visibility, transactional data and business intelligence (BI) and Decision Support (DS) across the MHS. Stakeholders: MHS and DLA troop support. Customers: medical logisticians, biomedical technicians, clinical staff, and facilities management personnel in MTFs												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Defense Medical Logistics Standard Support (DMLSS) (Tri-Service)									2.278	-	-	
Description: In FY 2019, DMLSS will continue work started in FY 2018 using FY 2018 RDT&E. Plans are to continue the development of FDA recall alerts medical material quality control capability.												
Accomplishments/Planned Programs Subtotals									2.278	-	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency			Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 480C / <i>Defense Medical Logistics Standard Support (DMLSS) (Tri-Service)</i>	

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

<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BA-1, 0807793DHA: <i>MHS Tri-Service Information</i>	35.624	36.143	35.494	-	35.494	35.206	35.961	36.680	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

E. Performance Metrics

Each program establishes performance measurements which are usually included in the MHS IT Annual Performance Plan. Program cost, schedule and performance are measured periodically using a systematic approach. The results of these measurements are presented to management on a regular basis in various as part of the Integrated Product and Process Development (IPPD) process, In Process Reviews (IPRs), or other reviews to determine program effectiveness and provide new direction as needed to ensure the efficient use of resources. Performance metrics for specific projects may be viewed at the OMB Federal IT Dashboard website.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 480D / Defense Occupational and Environmental Health Readiness System - Industrial Hygiene (DOEHRS-IH) (Tri-Service)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480D: Defense Occupational and Environmental Health Readiness System - Industrial Hygiene (DOEHRS-IH) (Tri-Service)	13.967	5.805	5.559	3.868	-	3.868	7.700	7.675	7.181	7.325	Continuing	Continuing
A. Mission Description and Budget Item Justification												
Defense Occupational and Environmental Health Readiness System - Industrial Hygiene (DOEHRS-IH) is a comprehensive, automated information system that provides a single point for assembling, comparing, using, evaluating, and storing occupational personnel exposure information, workplace environmental monitoring data, personnel protective equipment usage data, observation of work practices data, and employee health hazard educational data. DOEHRS-IH will provide for the definition, collection and analysis platform to generate and maintain a Service Member’s Longitudinal Exposure Record. DOEHRS-IH will describe the exposure assessment, identify similar exposure groups, establish a longitudinal exposure record baseline to facilitate post-deployment follow-up, and provide information to enable exposure-based medical surveillance and risk reduction.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Defense Occupational and Environmental Health Readiness System - Industrial Hygiene (DOEHRS-IH) (Tri-Service)									5.805	5.559	3.868	
Description: Configure, enhance, and interface DOEHRS-IH modules.												
FY 2019 Plans: Major development tasks planned include DOEHRS-IH to DOEHRS-HC Interface, Data Entry User Interface (GUI Enhancements) and Critical User Enhancements.												
FY 2020 Plans: Major development tasks planned include DOEHRS-IH interface to the Defense Medical Logistics Standard Support (DMLSS), IH Thermal Stress and Critical User Enhancements. Funding will be used for Individual Longitudinal Exposure Record (ILER) which will support increased DoD and VA data integration, development of additional DoD and VA user-specific functionality based on business case analyses, data exchange and integration with new electronic health records, and a platform to absorb an expected increase in “all hazards” exposure assessments as sensor and wearable technology advances.												
FY 2019 to FY 2020 Increase/Decrease Statement:												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019	
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 480D / <i>Defense Occupational and Environmental Health Readiness System - Industrial Hygiene (DOEHRS-IH) (Tri-Service)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019
Decrease as funding and functionality are moved to other initiatives as part of the Military Health System Health Information Technology Enterprise Reform offset with plus up for new module called ILER.			
Accomplishments/Planned Programs Subtotals		5.805	3.868
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.			
E. Performance Metrics Each program establishes performance measurements which are usually included in the MHS IT Annual Performance Plan. Program cost, schedule and performance are measured periodically using a systematic approach. The results of these measurements are presented to management on a regular basis in various as part of the Integrated Product and Process Development (IPPD) process, In Process Reviews (IPRs), or other reviews to determine program effectiveness and provide new direction as needed to ensure the efficient use of resources. Performance metrics for specific projects may be viewed at the OMB Federal IT Dashboard website.			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480F / <i>Executive Information/Decision Support (EI/DS) (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480F: <i>Executive Information/Decision Support (EI/DS) (Tri-Service)</i>	5.936	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 EI/DS was comprised of a central datamart Military Health System Data Repository (MDR) and several smaller datamarts: MHS Management Analysis and Reporting Tool (M2), Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE), and Purchased Care Operations Systems -TRICARE Encounter Data (TED) & Patient Encounter Processing and Reporting (PEPR). Many of these operate within a Business Objects XI (BOXI) environment. EI/DS manages receipt, processing, and storage of over 155 terabytes of data from both Military Treatment Facilities (MTF) and the TRICARE purchased care network systems. These data include inpatient dispositions, outpatient encounters, laboratory, radiology, and pharmacy workload, TRICARE network patient encounter records, TRICARE mail order pharmacy patient encounter records, beneficiary demographics, MTF workload and cost information, eligibility and enrollment, Pharmacy Data Transaction Service data, customer satisfaction surveys, and data associated with the Wounded Warrior care. EI/DS provides centralized collection, storage and availability of data, in various data marts, to managers, clinicians, and analysts for the management of the business of health care. EI/DS has been broken apart into 4 separate initiatives beginning in FY17. These initiatives are (1) ESSENCE, (2) PHIMT, (3) CEIS, and (PCOS).												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Executive Information/Decision Support (EI/DS) (Tri-Service)									0.000	-	-	
Description: Development, modernization, upgrades and testing for various EI/DS modules. EI/DS has been broken apart into 4 separate initiatives beginning in FY17. These initiatives are (1) ESSENCE, (2) PHIMT, (3) CEIS, and (PCOS).												
Accomplishments/Planned Programs Subtotals									0.000	-	-	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy Not applicable. E. Performance Metrics Not applicable.												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480G / <i>Health Artifact and Image Management Solution (HAIMS) (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480G: <i>Health Artifact and Image Management Solution (HAIMS) (Tri-Service)</i>	8.123	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
 The Health Artifact and Image Management Solution (HAIMS) enables the DoD and the VA healthcare providers to have global access and awareness of artifacts and images (A&I) generated during the healthcare delivery process. HAIMS will provide the new capability for users throughout the MHS to be aware and have access to A&I that have been registered with the central "system", currently on local workstations and Military Treatment Facility (MTF) Picture Archive and Communications Systems (PACs). As patients move through the continuum of care from Continental United States to Theater and then return to DoD sustaining bases facilities, healthcare A&I moves seamlessly and simultaneously with the patient. This advances several MHS strategy initiatives such as achievement of paperless record, global access of Wounded Warrior scanned documents, and an alternative to finding storage space for paper records of merging MTFs. HAIMS will supply access to VHA and other external A&I both inside and outside the Military Health System (MHS) Electronic Health Record (EHR).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Health Artifact and Image Management Solution (HAIMS) (Tri-Service)	0.000	-	-
Description: Integrate new functionality into HAIMS.			
Accomplishments/Planned Programs Subtotals	0.000	-	-

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

Remarks

D. Acquisition Strategy
 Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

E. Performance Metrics
 Each program establishes performance measurements which are usually included in the MHS IT Annual Performance Plan. Program cost, schedule and performance are measured periodically using a systematic approach. The results of these measurements are presented to management on a regular basis in various as part of the Integrated Product and Process Development (IPPD) process, In Process Reviews (IPRs), or other reviews to determine program effectiveness and provide new direction as needed to ensure the efficient use of resources.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480K / <i>Integrated Federal Health Registry Framework (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480K: <i>Integrated Federal Health Registry Framework (Tri-Service)</i>	4.065	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

The purpose of an integrated Federal Health Registry capability is to provide a viable solution to fulfill a critical need for improved sharing and exchange of Service member and Veteran health information and data between the Department of Defense - Health Affairs and the Department of Veterans Affairs Veterans Health Administration communities of interest (COIs) as mandated in Section 1635 of the 2008 National Defense Authorization Act (NDAA, 2008). This ability to share and exchange vital health care data between the respective specialties of care is essential to conduct longitudinal analyses necessary to improve patient care and quality of life outcomes. To maximize efficiencies and most effectively meet the needs of the functional communities, the Centers of Excellence (CoEs) have developed a consolidated framework solution for an integrated Federal Health Registry capability. This effort provides a comprehensive solution that meets the specialty care needs of each of the Services and Veteran Affairs that are represented by the Joint DoD and VA CoEs, (Army-Extremity Trauma and Amputation Center of Excellence; Defense Health Agency-Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury; Navy-DoD/VA Vision Center of Excellence; Air Force-Hearing Center of Excellence; and National Capital Region-National Intrepid Center of Excellence). Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

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

	FY 2018	FY 2019	FY 2020
Title: integrated Health Registry Framework (Tri-Service)	0.000	-	-
Description: Develop, integrate and test a common registry.			
Accomplishments/Planned Programs Subtotals	0.000	-	-

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

N/A

Remarks

D. Acquisition Strategy

Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

E. Performance Metrics

Program cost, schedule and performance are measured periodically using a systematic approach as required for Major Automated Information Systems (MAIS) per DoD Directives and Instructions.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480M / <i>Theather Medical Information Program - Joint (TMIP-J) (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480M: <i>Theather Medical Information Program - Joint (TMIP-J) (Tri-Service)</i>	28.731	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

The Theater Medical Information Program - Joint (TMIP-J) integrates components of the Military Health System sustaining base systems and the Services' medical information systems to ensure timely interoperable medical support for mobilization, deployment and sustainment of all Theater and deployed forces in support of any mission. TMIP-J enhances the clinical care and information capture at all levels of care in Theater, transmits critical information to the Theater Commander, the evacuation chain for combat and non-combat casualties, and forges the theater links of the longitudinal health record to the sustaining base and the Department of Veterans Affairs. TMIP-J is the medical component of the Global Combat Support System. TMIP-J provides information at the point of care and to the Theater tactical and strategic decision makers through efficient, reliable data capture, and data transmission to a centralized Theater database. This delivers TMIP-J's four pillars of information support through the electronic health record, integrated medical logistics, patient movement and tracking, and medical command and control through data aggregation, reporting and analysis tools for trend analysis and situational awareness. TMIP-J fulfills the premise of "Train as you fight" through the integration of components which are identical or analogous to systems from the sustaining base. TMIP-J adapts and integrates these systems to specific Theater requirements and assures their availability in the no- and low- communications settings of the deployed environment through store and forward capture and transmission technology.

TMIP-J RDT&E is reported under the program element 0605013 through FY 2013 inclusive, but will be reported under new program element 0605023 for FY 2014 and out.

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

	FY 2018	FY 2019	FY 2020
Title: Theater Medical Information Program - Joint (TMIP-J) (Tri-Service)	0.000	-	-
Description: The Theater Medical Information Program - Joint (TMIP-J) integrates components of the Military Health System sustaining base systems and the Services' medical information systems to ensure timely interoperable medical support for mobilization, deployment and sustainment of all Theater and deployed forces in support of any mission. TMIP-J enhances the clinical care and information capture at all levels of care in Theater, transmits critical information to the Theater Commander, the evacuation chain for combat and non-combat casualties, and forges the theater links of the longitudinal health record to the sustaining base and the Department of Veterans Affairs. TMIP-J is the medical component of the Global Combat Support System. TMIP-J provides information at the point of care and to the Theater tactical and strategic decision makers through efficient, reliable data capture, and data transmission to a centralized Theater database. This delivers TMIP-J's four pillars of information support through the electronic health record, integrated medical logistics, patient movement and tracking, and medical command and control through data aggregation, reporting and analysis tools for trend analysis and situational awareness. TMIP-J fulfills the premise of "Train as you fight" through the integration of components which are identical or analogous to systems from the			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019		
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 480M / <i>Theater Medical Information Program - Joint (TMIP-J) (Tri-Service)</i>		
B. Accomplishments/Planned Programs (\$ in Millions) sustaining base. TMIP-J adapts and integrates these systems to specific Theater requirements and assures their availability in the no- and low- communications settings of the deployed environment through store and forward capture and transmission technology. TMIP-J RDT&E is reported under the program element 0605013 through FY 2013 inclusive, but will be reported under new program element 0605023 for FY 2014 and out.		FY 2018	FY 2019	FY 2020
Accomplishments/Planned Programs Subtotals		0.000	-	-
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A				

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480P / <i>Other Related Technical Activities (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480P: <i>Other Related Technical Activities (Tri-Service)</i>	4.807	3.371	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification
 Other Related Technical Activities includes funding for Information Technology activities common to multiple or all Tri-Service systems/programs and cannot be associated with any one individual Tri-Service initiative, which includes enterprise Messaging and other common IT services requirements. Additionally, in standing up the new Defense Health Agency (DHA) on October 1, 2013, one of the signature efforts of the reorganization is the establishment of a Shared Services model for the delivery of enterprise-wide support services to the Military Health System (MHS). One of the five shared services in DHA is Health Information Technology (HIT). The MHS Shared Services Portfolio Rationalization (MHS SSPR) is an initiative to capture those costs which need to be called out separately to implement the share services HIT portfolio rationalization.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Other Related Technical Activities (Tri-Service)	3.371	-	-
Description: Activities common to multiple or all Tri-Service systems/programs and cannot be associated with any one individual Tri-Service initiative, which includes MHS SSPR. Funding in FY17 used for AACE Mobile Development.			
Accomplishments/Planned Programs Subtotals	3.371	-	-

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

Remarks

D. Acquisition Strategy
 Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.

E. Performance Metrics
 Each activity establishes performance measurements. Program cost, schedule and performance are measured periodically using a systematic approach. Since this is an enterprise initiative which crosses multiple initiatives, performance metrics of the common activities are part of and/or contributing factors in the measurement of the performance metrics of the individual initiatives.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480Y / <i>Clinical Case Management (Tri-Service)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480Y: <i>Clinical Case Management (Tri-Service)</i>	2.925	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
 Provides a seamless view of the care and the health of the patient from the origin of injury or illness to the end of the need for that episode of care. It will capture relevant events, information, documents and other data to support the overall improvement of the patient's condition utilizing medical Case Management practices. It will provide the ability to collect clinical information in support of the medical Case Manager's mission and will provide information gathered to MTFs and MSCSs.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2018	FY 2019	FY 2020
<u>Title:</u> Clinical Case Management (Tri-Service)	0.000	-	-
<u>Description:</u> Provides a seamless view of the care and the health of the patient from the origin of injury or illness to the end of the need for that episode of care. It will capture relevant events, information, documents and other data to support the overall improvement of the patient's condition utilizing medical Case Management practices. It will provide the ability to collect clinical information in support of the medical Case Manager's mission and will provide information gathered to MTFs and MSCSs.			
Accomplishments/Planned Programs Subtotals			
	0.000	-	-

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

Remarks

D. Acquisition Strategy
 N/A

E. Performance Metrics
 N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 481A / <i>Theater Enterprise Wide Logistics System (TEWLS) Tri-Service</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
481A: <i>Theater Enterprise Wide Logistics System (TEWLS) Tri-Service</i>	5.127	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 Theater Enterprise-Wide Logistics System (TEWLS) supports critical medical logistics warfighter requirements in a net-centric environment. It ties the national, regional, and deployed units into a single business environment. It creates the necessary links for planners, commercial partners, and AMEDD logisticians to accomplish essential care in the theater through a single customer facing portal. It removes disparate data and replaces it with a single instance of actionable data. TEWLS supports today's modern, non-contiguous battlefield at the regional, COCOM, and Service levels by leveraging emerging Medical Materiel Executive Agency and Theater Lead Agent infrastructure concepts to manage the entire medical supply chain from the industrial base to the end user.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Theater Enterprise Wide Logistics System (TEWLS) Tri-Service)									0.000	-	-	
Description: Theater Enterprise-Wide Logistics System (TEWLS) supports critical medical logistics warfighter requirements in a net-centric environment. It ties the national, regional, and deployed units into a single business environment. It creates the necessary links for planners, commercial partners, and AMEDD logisticians to accomplish essential care in the theater through a single customer facing portal. It removes disparate data and replaces it with a single instance of actionable data. TEWLS supports today's modern, non-contiguous battlefield at the regional, COCOM, and Service levels by leveraging emerging Medical Materiel Executive Agency and Theater Lead Agent infrastructure concepts to manage the entire medical supply chain from the industrial base to the end user.												
Accomplishments/Planned Programs Subtotals									0.000	-	-	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 482A / <i>E-Commerce (DHA)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
482A: <i>E-Commerce (DHA)</i>	13.193	3.568	4.200	4.284	-	4.284	4.370	4.457	4.546	4.637	Continuing	Continuing

A. Mission Description and Budget Item Justification

The DHP, RDT&E appropriation includes the following TMA initiatives: Electronic Commerce System(E-Commerce): This system was developed for centralized collection, integration, and reporting of accurate purchased care contracting and financial data. It provides an integrated set of data reports from multiple data sources to management, as well as tools to control the end-to-end program change management process. E-Commerce replaces multiple legacy systems. E-Commerce consists of several major subsystems including: CM subsystem utilizing Prism software to support contract action development and documentation; the RM subsystem utilizing Oracle Federal Financials and TED interface software to support the budgeting, accounting, case recoupment, and disbursement processes; the document management subsystem utilizing Documentum software to provide electronic storage, management, and retrieval of contract files; Management Tracking and Reporting subsystem utilizing custom software to provide reports to assist in the management and tracking of changes to the managed care contracts as well as current and out year liabilities; the Purchased Care Web site that provides up-to-date financial information for both TMA and the Services concerning the military treatment facilities' (MTFs') expenditures for MTF enrollee purchased care and supplemental care. E-Commerce includes 5 major subsystems and over 60 servers supporting development, test, and production. The system will be utilized by several hundred users in more than 7 different organizations. Project oversight and coordination must be provided to ensure that the needs of the disparate organizations are met without impacting the system performance or support to any individual user. Server configurations must be kept current in terms of security policies, user authorizations, and interactions with other systems and functions. All of these activities must be managed and coordinated on a daily basis.

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

	FY 2018	FY 2019	FY 2020
Title: E-Commerce (DHA)	3.568	4.200	4.284
Description: The DHP, RDT&E appropriation includes the following TMA initiatives: Electronic Commerce System(E-Commerce): This system was developed for centralized collection, integration, and reporting of accurate purchased care contracting and financial data. It provides an integrated set of data reports from multiple data sources to management, as well as tools to control the end-to-end program change management process. E-Commerce replaces multiple legacy systems. E-Commerce consists of several major subsystems including: CM subsystem utilizing Prism software to support contract action development and documentation; the RM subsystem utilizing Oracle Federal Financials and TED interface software to support the budgeting, accounting, case recoupment, and disbursement processes; the document management subsystem utilizing Documentum software to provide electronic storage, management, and retrieval of contract files; Management Tracking and Reporting subsystem utilizing custom software to provide reports to assist in the management and tracking of changes to the managed care contracts as well as current and out year liabilities; the Purchased Care Web site that provides up-to-date financial information for both TMA and the Services concerning the military treatment facilities' (MTFs') expenditures for MTF enrollee purchased care and supplemental care. E-Commerce includes 5 major subsystems and over 60 servers supporting development, test, and production. The system will be utilized by several hundred users in more than 7 different organizations. Project			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency								Date: February 2019			
Appropriation/Budget Activity 0130 / 2				R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 482A / <i>E-Commerce (DHA)</i>			

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
oversight and coordination must be provided to ensure that the needs of the disparate organizations are met without impacting the system performance or support to any individual user. Server configurations must be kept current in terms of security policies, user authorizations, and interactions with other systems and functions. All of these activities must be managed and coordinated on a daily basis.			
<i>FY 2019 Plans:</i> In FY19, plans include more modernization to healthcare financial processing, contracts, and reporting as well as adapting to health care policy and guidance. This funding will help to improve operational efficiency for DHA personnel in areas of new health care contracts, processing changes to requirements, and improving private sector care assessments and deliverable processing. Other plans include accounting improvements and better budget management. There will also be software changes, mandated by Congress and the DoD to accommodate financial application policy modifications, BEA SFIS changes, and PDS compliance <i>FY 2020 Plans:</i> Plans include more modernization to healthcare financial processing, contracts, and reporting as well as adapting to health care policy and guidance <i>FY 2019 to FY 2020 Increase/Decrease Statement:</i> Inflation.			
Accomplishments/Planned Programs Subtotals	3.568	4.200	4.284

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• BA-1, 0807752HP:	0.132	0.132	0.132	-	0.132	0.132	0.135	0.138	-	Continuing	Continuing
<i>Miscellaneous Support Activities</i>											
• BA-3, 0807721HP:	0.000	0.550	0.561	-	0.561	0.571	0.583	0.595	-	Continuing	Continuing
<i>Replacement/Modernization</i>											
Remarks Program transfer from project 480R.											
D. Acquisition Strategy N/A											
E. Performance Metrics The benchmark performance metric for transition of research supported in this PE will be the attainment of a maturity level that is typical of TRL8.											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 490I / <i>Navy Medicine Chief Information Officer</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
490I: <i>Navy Medicine Chief Information Officer</i>	6.237	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 Navy Medicine CIO Management Operations - IM/IT RDT&E requests will be vetted through the Bureau of Navy Medicine (BUMED) Governance Process. BUMED IM/IT CIO Governance will monitor progress and milestones every six months.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2018	FY 2019	FY 2020
Title: Navy Medicine Chief Information Officer (CIO) Management Operations										0.000	-	-
Description: Navy Medicine CIO Management Operations - IM/IT RDT&E requests will be vetted through the Bureau of Navy Medicine (BUMED) Governance Process. BUMED IM/IT CIO Governance will monitor progress and milestones every six months.												
Accomplishments/Planned Programs Subtotals										0.000	-	-
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• BA-1, 0807781HP: <i>Non-Central Information Management/Information Technology</i>	83.778	68.129	71.102	-	71.102	72.458	-	-	-	Continuing	Continuing	
• BA-1, PE 0807795HP: <i>Base Communications - CONUS</i>	17.458	17.793	18.151	-	18.151	18.505	-	-	-	Continuing	Continuing	
• BA-1, PE 0807995HP: <i>Base Communications - OCONUS</i>	2.599	2.646	2.696	-	2.696	2.750	-	-	-	Continuing	Continuing	
• BA-3, PE 0807721HP: <i>Replacement/Modernization</i>	0.000	0.000	0.000	-	0.000	0.000	-	-	-	Continuing	Continuing	
Remarks												
D. Acquisition Strategy N/A												
E. Performance Metrics N/A												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 490J / <i>Navy Medicine Online</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
490J: <i>Navy Medicine Online</i>	5.259	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

The Navy Medicine Online System (NMO) is the designated data broker for Navy Medicine. Previous to FY 2016 Navy used funding to provide support on various initiatives. Funding transferred to Defense Health Agency starting in FY 2016. FY 2016 funding will be used for application platform usability and interoperability to deliver apps for patients and staff.

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

	FY 2018	FY 2019	FY 2020
<i>Title:</i> Navy Medicine Online (NMO)	0.000	-	-
<i>Description:</i> The Navy Medicine Online System (NMO) is the designated data broker for Navy Medicine. Funding transferred to Defense Health Agency starting in FY 2016.			
Accomplishments/Planned Programs Subtotals	0.000	-	-

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 480A / Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) (Tri-Service)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480A: Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) (Tri-Service)	5.031	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												
ESSENCE is the global, MHS monitoring capability for the early detection of health threats to force readiness. The Armed Forces Health Surveillance Center (AFHSC), the Service-specific public health centers, and Medical Treatment Facilities (MTFs) worldwide use ESSENCE on a daily basis to monitor the health status of the Military Health System (MHS) population in a time of concerns about possible biomedical terrorist attack and naturally occurring emerging infections. ESSENCE monitors the direct care MHS population, containing data on over 9 million lives. ESSENCE facilitates recognition and investigation of Tri-Service Reportable Medical Events and permits access to aggregate data and individual data to analyze the epidemiologic characteristics of health events of interest for Medical situational awareness.												
This initiative is a split investment from the original Executive Information/Decision Support (EI/DS) initiative for reporting purposes.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2018	FY 2019	FY 2020	
Title: Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE)									0.000	-	-	
Description: Web-based syndromic surveillance used worldwide to identify rapid or unusual increases in certain syndromes. Automatically alerts users to these unusual increases and uses geographic information system mapping to display occurrences geographically.												
Accomplishments/Planned Programs Subtotals									0.000	-	-	
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• BA-1: 0807793DHA: MHS Tri-Service Information	6.609	6.711	6.769	-	6.769	6.874	7.024	7.164	-	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 480A / <i>Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) (Tri-Service)</i>

E. Performance Metrics

Each program establishes performance measurements which are usually included in the MHS IT Annual Performance Plan. Program cost, schedule and performance are measured periodically using a systematic approach. The results of these measurements are presented to management on a regular basis in various as part of the Integrated Product and Process Development (IPPD) process, In Process Reviews (IPRs), or other reviews to determine program effectiveness and provide new direction as needed to ensure the efficient use of resources.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 480Z / Patient Reported Outcomes Clinical Record (Previous known as PASTOR) (Tri-Service)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480Z: Patient Reported Outcomes Clinical Record (Previous known as PASTOR) (Tri-Service)	0.798	0.519	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

In FY2019, PASTOR name changed to Patient Reported Outcomes Clinical Record (PROCR).

A Clinical Decision Support tool to facilitate clinical management and optimize patient care by providing clinicians the ability to track patient reported outcome data as patients proceed through the clinical continuum of care. The need for standardized clinical assessments extended to business process improvements, clinical decision support, and individual and population-based outcome improvements by using validated instruments to measure patient reported outcomes and clinical treatment data in the routine delivery of care. PROCR leverages computer adaptive testing scales of the National Institutes of Health Patient Reported Outcomes Measurement Information System to fulfill two essential clinical needs: (1) seamless communication of assessment results in an actionable manner and (2) data repository for clinical research and health utilization studies.

Capabilities focus on two care communities: pain-related psychosocial factors & treatment history; and musculoskeletal (MSK) health. PROCR helps meet the 2010 National Defense Authorization Act (NDAA) recommendation for “performance measures used to determine the effectiveness of the policy in improving pain care for beneficiaries enrolled in the military health care system.”. PROCR capabilities include, but are not limited to:

- Create, store, deliver, and maintain patient reported responses to outcome measurement questions
- Patient to complete questionnaire with computer adaptive testing on self-entered electronic data device either through the internet, via a patient portal or in the clinic setting
- Staff to view the patient self- entered data (i.e., dashboard, visual representation, trends reports, and summaries)
- Provide decision support for staff based on data collected from patient (i.e., identify risk or potential problems, summarizing key information, follow trends over time, medication order sets, evaluate effectiveness of interventions).

Replaces Pain Assessment Screening Tool Outcome Registry (PASTOR)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Patient Reported Outcomes Clinical Record (PROCR)	0.519	-	-
Description: Current capabilities completed with advanced concept technology re-modernization funding, reported under the MHS Information Technology Research Projects (MHSITRP) initiative, at pilot facilities include:			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019	
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 480Z / <i>Patient Reported Outcomes Clinical Record (Previous known as PASTOR) (Tri-Service)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019
• Capability to create, store, deliver, and maintain patient reported responses to outcome measurement questions. • Capability for patient to complete questionnaire with computer adaptive testing on self-entered electronic data device either through the internet, via a patient portal or in the clinic setting. • Capability for staff to view the patient self- entered data (ie. dashboard, visual representation, trends reports, and summaries). • Capability to provide decision support for staff based on data collected from patient (i.e. identify risk or potential problems, summarizing key information, follow trends over time, medication order sets, evaluate effectiveness of interventions). • Capability to identify and enroll patients in a pain management registry (which is a part of the PASTOR package and maintained at Madigan).			
Accomplishments/Planned Programs Subtotals		0.519	-
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy N/A E. Performance Metrics N/A			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 480R / <i>Joint Disability Evaluation System IT (DHA)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
480R: <i>Joint Disability Evaluation System IT (DHA)</i>	0.429	0.566	0.666	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification
 JDES-IT will provide case level management, tracking and reporting capability that will provide Disability Evaluation System (DES) processors and stakeholders increased transparency of a case through an automated IT solution. Case files and DES information will be electronically transferred and shared within Service components, between the Services, and with Veterans Affairs. The future environment would also include information exchange capability with existing Human Resources (HR) and medical systems to reduce duplicative entry. Funding previously reported under Disability Mediation Service prior to finalize decision on the JDES-IT.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Joint Disability Evaluation System IT (JDES-IT) Description: JDES-IT will provide case level management, tracking and reporting capability that will provide Disability Evaluation System (DES) processors and stakeholders increased transparency of a case through an automated IT solution. FY 2019 Plans: Capability is being satisfied in HAIMS in FY 20. In FY 19 will be the year to transition the capability into HAIMS. FY 2019 to FY 2020 Increase/Decrease Statement: Capability is being satisfied in HAIMS in FY 20.	0.566	0.666	-
Accomplishments/Planned Programs Subtotals	0.566	0.666	-

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

Remarks

D. Acquisition Strategy
 Not applicable.

E. Performance Metrics
 Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / Information Technology Development				Project (Number/Name) 485 / Legacy Data Repository (DHA-C)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
485: Legacy Data Repository (DHA-C)	0.000	0.000	5.741	5.856	-	5.856	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Legacy Data Repository (LDR) will provide the strategy, analysis, and solution to assume data management and governance for legacy Clinical and Business data for Defense Health Agency's Solutions Delivery Division systems that will be decommissioned as the Military Health System (MHS) Genesis electronic health record is deployed.

As MHS Genesis deploys to each site, legacy systems cannot decommission without a legacy data repository to safely and securely migrate data – absence a LDR solution negates and ignores the underlying requirement. Clinicians without access to legacy patient history can create a direct patient safety issue. The legacy component of a patient's Legal Medical Record will no longer be accessible once MHS Genesis rolls out.

LDR will identify, capture, organize, disseminate, and synthesize required legacy data needed to support medical information requirements for Business Intelligence (BI), Continuity of Care, and Archival in support of Defense Health Modernization Systems (DHMS) deployment plans, legacy system decommissioning plans, and operations and sustainment activities within their areas of responsibility.

This initial investment would allow the MHS to realize cost savings by decommissioning systems with overlapping capabilities to MHS Genesis, and reduce the legacy system footprint across the enterprise. Further, LDR would make legacy data available for clinicians through a clinical viewer to compliment the longitudinal record of MHS Genesis. This project will enable clinicians to holistically view a service member's medical record through both MHS Genesis and a legacy viewer. Downstream system dependent on legacy data would also be benefited through a persistence of this information.

As the LDR takes responsibility for legacy data, it must be retained within a flexible, scalable, and cost effective platform, but must also maintain the discipline of existing MHS data governance and management standards. While meeting these data governance and management standards, legacy data will be maintained in a variety of formats and degrees of normalization and structuring (i.e. discrete data, document, object, and file level).

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

	FY 2018	FY 2019	FY 2020
Title: Legacy Data Repository	-	5.741	5.856
Description: LDR will identify, capture, organize, disseminate, and synthesize required legacy data needed to support medical information requirements for Business Intelligence (BI), Continuity of Care, and Archival in support of Defense Health Modernization Systems (DHMS) deployment plans, legacy system decommissioning plans, and operations and sustainment activities within their areas of responsibility.			
FY 2019 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019	
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 485 / <i>Legacy Data Repository (DHA-C)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019
Complete RMF Process • Step 1: System Categorization • Step 2: Select Controls • Step 3 ATO Activity Kickoff • Step 3: Implement • Complete Annual Review Data Migration • Identify Data mapping based on FY18 Data Architecture activities • Map out ETL process, Data Quality Checks, and final validation • Delivery final Data Migration Plan • Implement System Development • Configure staging area, landing zone, and operational data store • Deliver iterative/Agile plan for front end development and data delivery elements • Conduct Systems Requirements Review (SRR) for Presentation Layer • Conduct Preliminary Design Review (PDR) for Presentation Layer • Complete Critical Design Review (CDR) for Presentation Layer • Document and Deliver Test Strategy and OT&E Plan FY 2020 Plans: Finalize RMF - Complete RMF Control Packages (1-3) Begin System Development (Phase 1 of 2) • Project Kick Off – Create KO report • Develop initial product backlog and review criteria for minimal viable product (MVP) with government • Complete Development Sprints – At each sprint deliver the following: Product backlog burndown chart, development velocity metrics, sprint burndown chart, and meeting minutes for the sprint planning, sprint review, and product backlog planning meetings. • Phase 1 Delivery – Create System Engineer Risk Assessment and document Promote to the Field (PTTF) authority approval. • Software Hand-Off Code Freeze and software Installation GO LIVE – Deliver software delivery report for each layer (presentation, logic, and data). FY 2019 to FY 2020 Increase/Decrease Statement: RDT&E slightly increases in accordance with the cost estimate to complete in FY20.			
Accomplishments/Planned Programs Subtotals		-	5.741
			5.856

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 485 / <i>Legacy Data Repository (DHA-C)</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
D. Acquisition Strategy Evaluate and use the most appropriate business, technical, contract and support strategies and acquisition approach to minimize costs, reduce program risks, and remain within schedule while meeting program objectives. Strategy is revised as required as a result of periodic program reviews or major decisions.		
E. Performance Metrics Each program establishes performance measurements which are usually included in the MHS IT Annual Performance Plan. Program cost, schedule and performance are measured periodically using a systematic approach. The results of these measurements are presented to management on a regular basis in various as part of the Integrated Product and Process Development (IPPD) process, In Process Reviews (IPRs), or other reviews to determine program effectiveness and provide new direction as needed to ensure the efficient use of resources. Performance metrics for specific projects may be viewed at the OMB Federal IT Dashboard website.		

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency										Date: February 2019		
Appropriation/Budget Activity 0130 / 2					R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>				Project (Number/Name) 505 / <i>Military Health System Virtual Health Program (MHS VHP)</i>			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
505: <i>Military Health System Virtual Health Program (MHS VHP)</i>	-	0.000	0.000	2.000	-	2.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

Purpose: Establish a unified MHS program to augment military medicine with robust 'anywhere' virtual health capabilities. The program will include three distinct capabilities in order to meet its initial expected business outcome. The first capability will incorporate secure clinical VTC (synchronous visits) to enable a provider in one location to offer diagnosis and treatment to a patient in another location. Synchronous visits can take place between a provider and patient at different MTFs, or at the patient's location (e.g. their home or other location deemed appropriate by the provider). Synchronous visits at the patient's location can be conducted for primary or specialty care. Primary and Specialty Care appointments via synchronous visits will enable health care anytime, anywhere. The second capability incorporates an Asynchronous secure portal or teleconsultation portal, to enable a pool of specialty care providers globally to deliver timely clinical advice, primarily in operational settings where expertise is scarce, but also in garrison when needed. The portal facilitates 'store and forward' transmission of electronic medical information and associated digital images between health care providers. Specialty clinicians provide expert advice and guidance to the patient's attending physicians, assisting them in the disposition or local treatment options. The third capability is remote health monitoring, to collect, track, and transmit biometric data from the patient via a secure portal to an MTF. The data is accessed by a care coordinator or health care provider at the MTF to provide real-time medical interventions that can improve a patient's health and quality of life.

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

Title: Military Health System Virtual Health Program (MHS VHP)	FY 2018	FY 2019	FY 2020
Description: GOAL: The MHS VHP will connect our beneficiaries to health care globally to increase readiness, access, quality, and patient safety.	-	-	2.000
BENEFIT: Using VH, the best of MHS Medicine across the world can be brought to the patient wherever they are – deployed or in garrison. As a modality without geographic limits, VH extends access to quality primary care, behavioral health, and medical specialty care to remote locations where beneficiaries may be geographically separated from comprehensive Military Treatment Facility (MTF) based care, and where such care is not readily available in the surrounding community. Additionally, VH can help the MHS use its clinical capacity more effectively; cross-leveraging clinical expertise when and where it is needed.			
FY 2020 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Health Agency		Date: February 2019		
Appropriation/Budget Activity 0130 / 2	R-1 Program Element (Number/Name) PE 0605013DHA / <i>Information Technology Development</i>	Project (Number/Name) 505 / <i>Military Health System Virtual Health Program (MHS VHP)</i>		
B. Accomplishments/Planned Programs (\$ in Millions) Initial research and development of interfaces, potential software purchases that will enable integration of MHS Virtual Health Enterprise platform to DoD Electronic Health Record as well as other Enterprise system, and potential customization needed to meet Military Health Systems unique requirements. Identify future requirements that will be funded by RDTE in FY21 and out. <i>FY 2019 to FY 2020 Increase/Decrease Statement:</i> Start up of new version of the program begins in FY20.		FY 2018	FY 2019	FY 2020
Accomplishments/Planned Programs Subtotals		-	-	2.000
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy To be determined as program matures. E. Performance Metrics To be determined as program matures.				