

Joint Warfighter Medical Research Program

Program History

The Joint Warfighter Medical Research Program (JWMRP) provides the DoD with a powerful tool for advancing previously funded Congressional Special Interest Medical Research and Development projects that address military medical requirements of the Services while complementing and enhancing the Defense Medical Research and Development Program (DMRDP). The JWMRP leverages the efforts of industry and academia for projects that show promise in closing identified military medical capability gaps and provides the funding to move these products through the developmental process.

Each year, a broad spectrum of research projects are considered for funding under the JWMRP. The projects align to the six Joint Program Committee (JPC) scientific domains represented in the DMRDP, including Medical Simulation and Health Information Sciences (JPC-1), Military Infectious Diseases (JPC-2), Military Operational Medicine (JPC-5), Combat Casualty Care (JPC-6), Radiation Health Effects (JPC-7), and Clinical and Rehabilitative Medicine (JPC-8).

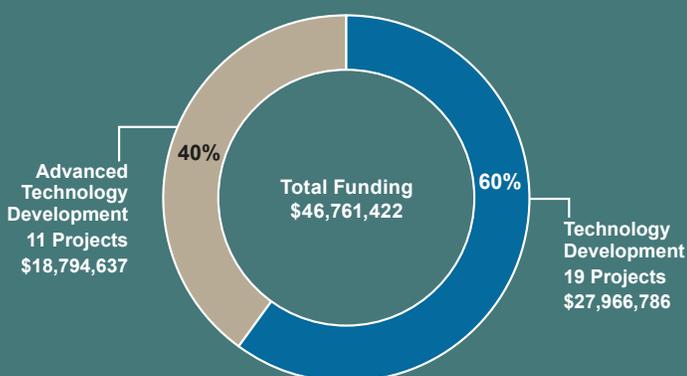
Congress first appropriated \$50M for the JWMRP in FY12 and again in FY13, then later doubled the appropriation to \$100M in FY14, followed by an additional \$50M in FY15 and FY16. Because the overall goal of the program is to deliver a product for the DoD, the ratio of funding allocation over the past 3 years has intentionally reduced the percentage of funds directed toward early technology development and increased the proportion of funding for advanced technology development initiatives. A total of 28 projects were funded through the FY12 JWMRP; 35 projects are aligned to the FY13 JWMRP; 46 projects are funded through the FY14 program; and 30 projects are funded in the FY15 program. The graph below depicts the program funding allocations for FY15.

Vision

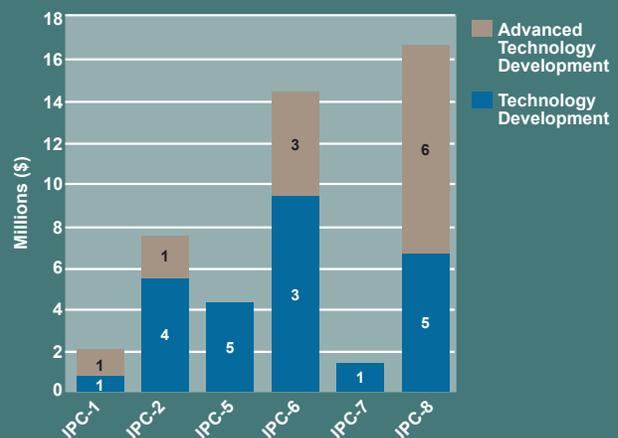
Move military relevant medical solutions forward in the acquisition life-cycle to meet the needs of Service members and other military health system beneficiaries

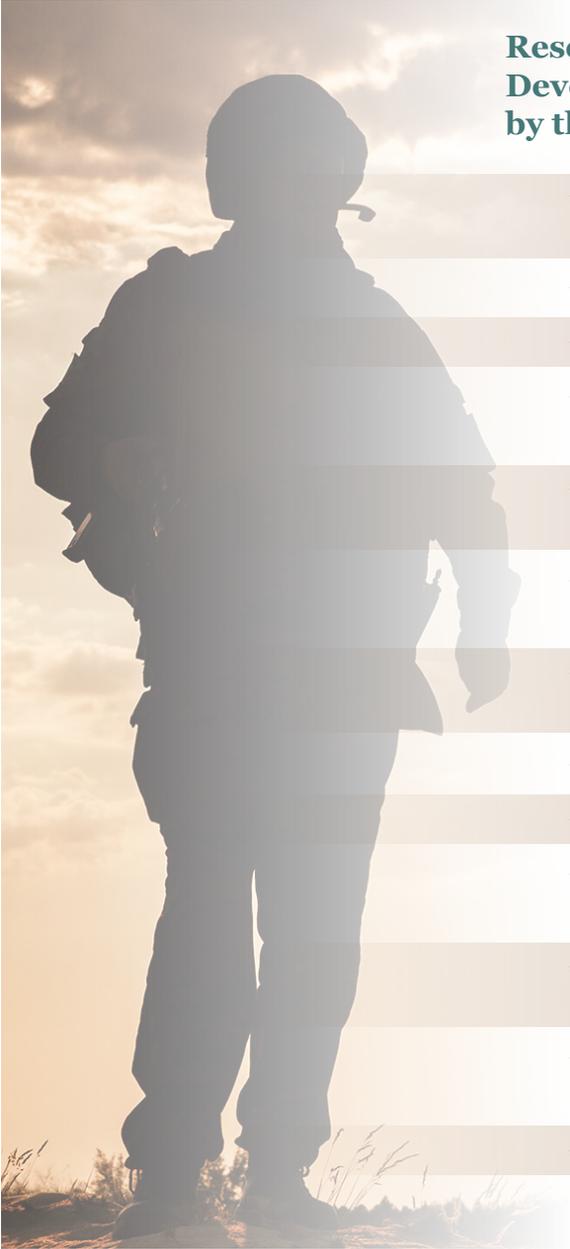
The JWMRP is a dynamic program that facilitates the maturation of previous congressionally funded research efforts that demonstrate the potential to close identified military medical capability gaps.

FY15 Summary



FY15 Final Funding Distribution





Research and Product Development Efforts Funded by the JWMRP Include:

- Focused effort on improving cognitive and functional deficits after traumatic brain injury using virtual technology
- Intelligent tutoring system for emergency preparedness training
- Phase II b clinical trial for a Norovirus vaccine
- Phase II Malaria clinical trial with the first live attenuated vaccine against protozoal disease in humans
- Development and clinical trial of a food supplement to prevent travelers' diarrhea
- Development and evaluation of implantable nanosensors to monitor key physiological parameters of Warfighter health
- Development of a passive physiological monitoring system during medical evacuation
- Transportable pathogen reduction and blood safety system
- Development of a non-electric, disposable IV infusion pump
- Pivotal study on the regulatory approval pathway for a drug to treat acute radiation sickness
- Accelerating the development of the opioid Sufentanil for pain treatment
- Modifying and enhancing lower-extremity prosthetics to restore balance and locomotion
- Development of bioengineered corneas for transplantation

By focusing on both early and advanced technology development, the JWMRP provides a pathway to transition products to military health care providers and the Warfighter.

