

Combat Casualty Care

Services

Secure Research Funding

HJF empowers you with the resources you need to secure research funding. We drive change—while removing barriers to success. HJF makes it easier to find upcoming funding opportunities from various sponsors, most relevant to military medical researchers.

Develop Your Proposal

Our experts provide all stages of proposal development, from analyzing requests for proposals (RFPs) to submitting outstanding grant, cooperative agreement and contract applications. Our experts have you covered through the proposal lifecycle because we've worked with military and federal principal investigators in identifying and responding to funding opportunities for more than three decades.

Build Your Team

HJF has the know-how to recruit and staff your research team with top talent. We staff scientific, management and administrative teams for research awards across the U.S. and around the world. HJF takes care of recruiting, hiring and managing hard-to-find specialists including diverse global talent with the J-1 Exchange Visitor Program and the H-1B employment-based program.

Manage Your Research

HJF has managed thousands of research awards for more than 35 years. We help you with compliance, financial reporting, procurement, and all areas of research administration. We have perfected our scientific management—so you can focus on the research. Our wide

About HJF

The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. (HJF) is a global, nonprofit organization created to accelerate progress in military medicine. Authorized by the U.S. Congress, HJF works to promote military-civilian interchange, support the Uniformed Services University of the Health Sciences (USU) and advance all Department of Defense (DoD) research efforts for the mutual benefit of military and civilian medicine.

From program management to laboratory research, our thorough scientific, administrative and program management services empower researchers and clinicians with the resources they need to find answers and drive change, while removing barriers to success.

array of multi-site and international research and program management services includes everything from budgets to staffing to special equipment purchasing.

Market Your Technology

HJF facilitates collaboration between investigators and private industry partners worldwide to make innovative medical technologies available for clinical use and to take leading edge products to market. Our technology transfer experts assist you in creating translating research strategies, executing collaboration and licensing agreements, protecting and managing intellectual property, and establishing agreements for the exchange of information materials and data across institutions and organizations.

Traumatic tissue injury | Heterotopic ossification | Polytrauma | Hemorrhagic shock/hemorrhagic control | Resuscitative endovascular balloon occlusion of the aorta (REBOA) | Blast biophysics | Pathophysiological responses to blasts




Advancing Military Medicine

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The crucible of war yields hard lessons on combat and incredible discoveries in military medicine. Several HJF-supported programs are at the center of such advances. For instance, our supported programs study the complexities of polytrauma, testing and evaluating methods for resuscitation and hemorrhage control, and increasing the understanding of tissue regeneration.

Programs

Uniformed Services University of the Health Sciences

HJF supports a number of Uniformed Services University of the Health Sciences' (USU's) programs and missions, including:

- Scientific, technical, administrative and program support for traumatic tissue injury and regeneration research: HJF supports an explosive blast extremity amputation model to investigate tissue remodeling after traumatic events. The development of heterotopic ossification is then evaluated and biomarkers from the model are compared to biomarkers from samples taken from wounded service members being treated at Walter Reed National Military Medical Center (WRNMMC).
- Stem cell research: investigators are trying to validate models of heterotopic ossification so the condition can be studied further and possible treatments developed. To further investigate the mechanisms, HJF helps with stem cell research and scaffold development by providing complementary bedside-to-bench and bench-to-bedside strategies. Once the pathway that causes heterotopic ossification can be completely understood, investigators may be able to reduce the occurrence of the condition, as well as improve fracture and critical-sized defect healing.

Naval Medical Research Unit – San Antonio

The mission of the Naval Medical Research Unit – San Antonio is to conduct medical, craniofacial and directed energy biomedical research, which focuses on ways to enhance the health, safety, performance and operational readiness of Navy and Marine Corps personnel and address their emergent medical and oral or facial problems in routine and combat operations. HJF provides scientific, technical, administrative, management and programmatic support for research at their Veterinarian Science Department, as well as their Combat Casualty Care and Operational Medicine (CCC & OM) Directorate. HJF's efforts ensure continued productive and successful research in a multitude of areas, including:

- Protection, resuscitation and stabilization of combat casualties
- Hemorrhagic shock drugs, products and advanced therapies
- Therapeutic and diagnostic assays and devices intended to improve standards of care for service members
- Detection of microbial agents
- Wound-healing biomarker discovery and assay development
- Animal model development and veterinary science

Naval Medical Research Center

The Naval Medical Research Center (NMRC) Operational Undersea Medicine Directorate (OUMD) focuses on issues related to emergent combat injuries, mainly blast-induced TBI, the importance of which has been spotlighted through Operation Iraqi Freedom and Operation Enduring Freedom because of the increased use of improvised explosive devices (IEDs). OUMD's research efforts include the study of blast biophysics, pathophysiological responses to blast, neurocognitive and behavioral consequences of blast exposure, and treatment for blast injuries. HJF's support of NMRC is largely centered around two departments, the Regenerative Medicine Department and the Neurotrauma Department:

- NMRC's Regenerative Medicine Department maintains research efforts in composite tissue transplantation, stem cell biology and translational medicine. HJF scientists and research support staff investigate wound healing, including prevention of heterotopic ossification and development of next-generation osseointegration techniques for the rehabilitation of amputees. Together, the team is advancing advanced diagnostics and treatment protocols to enhance overall outcomes for those with combat wounds by identifying the protein and gene expression patterns involved in wound healing.
- NMRC's Neurotrauma Department works to develop novel strategies to prevent and treat combat casualties with particular attention given to early, far-forward interventions. The Polytrauma Program studies traumatic brain injury (TBI) alone or in combination with hemorrhage or other injuries. HJF provides programmatic and scientific personnel to support the Neurotrauma Department's important work.

David Grant Air Force Medical Center

The David Grant Air Force Medical Center (DGAFMC) receives HJF support on a number of its casualty care initiatives, specifically those supporting hemorrhage control. One particular initiative—resuscitative endovascular balloon occlusion of the aorta (REBOA)—offers the greatest potential to change current resuscitative practices for casualties in recent conflicts. HJF supports a randomized trial that compares complete REBOA to endovascular variable aortic control (EVAC, also known as controlled titrated occlusion) in a swine model of polytrauma.