

Clinical/ Rehabilitative

As part of its mission to advance military medical research, HJF works on programs that respond to the Department of Defense's commitment to the health and wellbeing of America's volunteer forces. These clinical and rehabilitative programs, which benefit from HJF's expertise, conduct innovative research into rehabilitation, pain management and sensory function.

Center for Rehabilitative Sciences Research

The Center for Rehabilitative Sciences Research (CRSR) was established in 2011 to advance rehabilitative care for services members with combat-related injuries, particularly those with orthopedic trauma, limb loss and neurological complications.

The center explores innovative treatment and technology such as barriers to successful reintegration, improvements to pain management strategies, applications of new technologies and the transfer of those technologies. To provide comprehensive treatment strategies for service members, the center engages in personal interactions through ethnographic interviewing and uses the latest advances in technology to further understand physiology, gait and kinematics. HJF successfully executes research efforts for CRSR at Army and Navy facilities around the nation. The sites include the Uniformed Services University of the Health Sciences and Walter Reed Bethesda's Military Advanced Training Center in Maryland, the Center for the Intrepid at San Antonio Military Medical Center in Texas, and the Naval Medical Center San Diego's Comprehensive Combat and Complex Casualty Care program in California.

The center provides a unique platform for fostering innovative research by incorporating clinical and technical advances in the rehabilitative care for service members and by partnering with numerous Department of Defense (DoD), Department of Veterans Affairs and civilian partners, including the Extremity Trauma and Amputation Center of Excellence (EACE), Center

for Neuroscience and Regenerative Medicine (CNRM), and Consortium for Human and Military Performance (CHAMP). HJF provides program management and scientific expertise to CRSR and facilitates the various types of collaborations required for program success.

Defense and Veterans Center for Integrative Pain Management

The Defense and Veterans Center for Integrative Pain Management (DVCIPM) was created to improve the management of pain in military and civilian medicine through clinical research efforts. The center focuses on understanding the continuum of pain care from the battlefield, during evacuation, at home and during rehabilitation and recovery. HJF supports DVCIPM by providing program management, research and clinical expertise across all sites of this multicenter program.

Since 2003, the program has been a model for the effective integration of acute and chronic pain medicine. In 2014, the center worked on the Pain Assessment Screening Tool and Outcomes Registry, which is driven by the National Institutes of Health-Patient Reported Outcomes Measurement Information System. This Internet-based system and registry allows a far more dynamic and complete understanding of the psychosocial and functional aspects of pain in a way heretofore not possible. The program uses computer adaptive testing technology to inform clinicians about a patient's pain.



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Warfighter Refractive Eye Surgery Program and Research Center

HJF supports the U.S. Army Warfighter Refractive Eye Surgery Program and Research Center (WRESP-RC) at Fort Belvoir, Virginia. The center, which serves as the only externally funded WRESP-RC in the U.S. Army, provides laser refractive surgery to eligible active-duty service members for the treatment of nearsightedness, farsightedness and astigmatism.

The WRESP-RC has performed over 18,000 refractive procedures, approximately 3,200 of which were included in clinical research. HJF provides proposal development and grant administration to the WRESP-RC. HJF also provides clinical trial support to WRESP-RC, including a study characterizing the response of lacritin in participants undergoing LASIK and photorefractive keratectomy (PRK).

In addition, HJF-supported research facilitated the development of a simple and rapid light-initiated tissue-bonding technology to decrease vision loss and ocular complications after penetrating eye injuries.

National Military Audiology and Speech Pathology Center

The National Military Audiology and Speech Pathology Center (NMASC) Scientific and Clinical Studies Section conducts basic, applied and translational research to improve the sensory function of military service members. The center's major research areas focus on:

- developing auditory fitness-for-duty standards, including new hearing tests that measure military performance
- evaluating new hearing prosthetics and hearing protection devices
- advancing functional measures of speech understanding/speech perception,
- improving clinical methods for assessing speech, voice and swallowing function in injured service members.

HJF provides the center with proposal development, grant administration, program management, research expertise and Industry-sponsored clinical trials support.

