

# ANNUAL REPORT





## **MESSAGE FROM THE DIRECTOR**

#### Colleagues,

I am excited to share that in 2022 we made great strides to strengthen and expand access to the Defense Intrepid Network for TBI and Brain Health (Defense Intrepid Network) interdisciplinary model of care, multisite research, and educational programs. This serves our mission to improve the lives of service members with traumatic brain injury (TBI) and associated conditions.

The Defense Intrepid Network's success is rooted in our desire and drive to partner with leaders throughout the government, academia, industry, private sector, and globally for the purpose of informing care and optimizing outcomes. TBI and emerging threats such as Anomalous Health Incidents (AHI) continue to be a major priority for government leaders and the US Department of Defense. In 2022, the Military Health System (MHS) and the Defense Intrepid Network were directed by Congress to provide care to personnel affected by AHI. This was a direct result of the exceptional outcomes that our interdisciplinary model of care yields for TBI.

Over the last year I have had the pleasure of traveling throughout the Defense Intrepid Network to meet with Defense Health Agency (DHA) Market and Military Treatment Facility site leadership to discuss the future of our unique model of care and to plan for our transition to a DHA program of record. At the core of the Defense Intrepid Network's success as a program of record will be a comprehensive framework and inclusive governance process for standardization of clinical care, research, administration, and education for the interdisciplinary model of care. This will ensure that our partners across the MHS and the greater TBI community have the opportunity to participate in the future trajectory of this amazing network.

We also continued to expand our partnerships and existing research collaboration in 2022 through participation in a multitude of conferences and symposiums, including the Military Health System Research Symposium (MHSRS) held in September 2022. Defense Intrepid Network leaders and staff presented more than 30 posters and invited oral presentations showcasing a wide range of studies at the first in-person MHSRS since 2019.

As you will see in this report, we achieved so many critical milestones in 2022 including moving closer to completing the construction of our ten Intrepid Spirit Centers (ISC). ISC Fort Carson opened its doors in Fort Carson, Colorado in June and we broke ground in December on the last building site of the Defense Intrepid Network, ISC Fort Bliss in El Paso, Texas.

Sadly in 2022, we lost a true champion of service members and healing the invisible wounds of war, Mr. Arnold Fisher. Mr. Fisher was a man of action, and through his efforts, along with those of the Intrepid Fallen Heroes Fund and the American people, the lives of thousands of active-duty service members, veterans, and their family members have been changed through high-quality treatment, research, and education provided by the Defense Intrepid Network for TBI and Brain Health.

There is so much more to come from this amazing Network, so please stay with us and stay engaged.





Captain Carlos D. Williams Medical Corps, United States Navy Director of the National Intrepid Center of Excellence Walter Reed National Military Medical Center



We improve the lives of patients and families impacted by TBI through excellence and innovation VISION

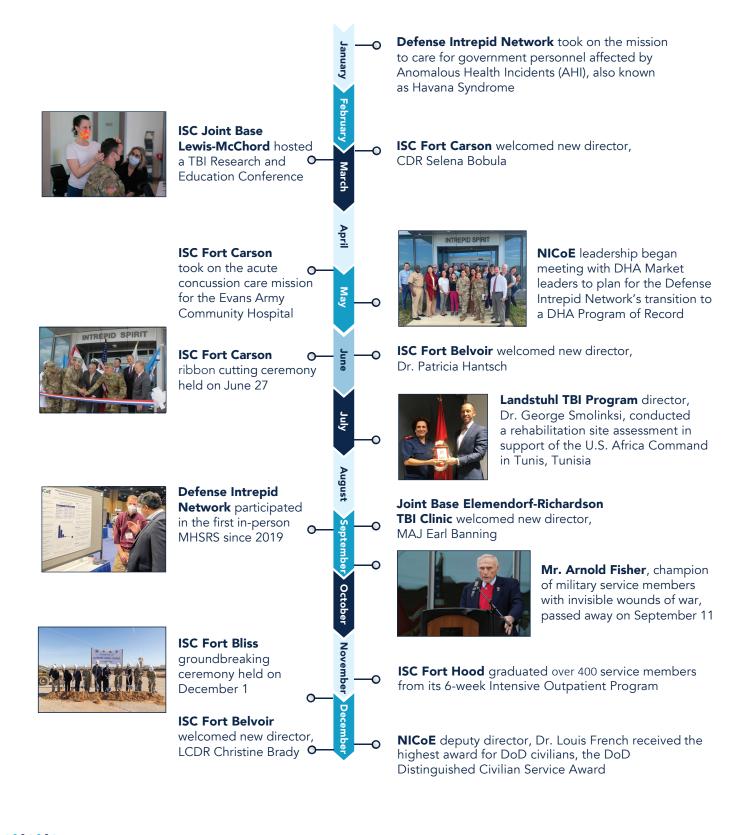
To be a global leader in TBI and brain health care, research, and education



Excellence, Innovation, Compassion, Honor, and Collaboration

## DEFENSE INTREPID NETWORK FOR TBI & BRAIN HEALTH

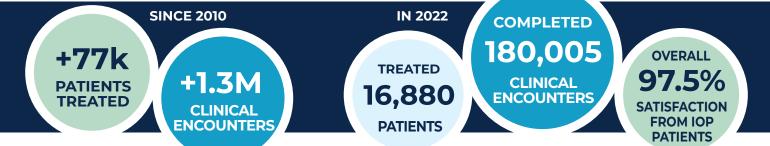
## **MILESTONES OF 2022**



## **CLINICAL OPERATIONS**

In 2022, Defense Intrepid Network staff continued providing excellence in TBI and brain health care by adapting to patient needs with expanded group therapy classes and new interdisciplinary co-treatment offerings, like the Reading for Education and Academic Endeavors (READ) group and the Auditory Cognitive Lab. Staff also created new online entry points to increase access to the NICoE's Brain Fitness Center in order for each Network site to track individual patient progress and performance over time. These changes offer a wide variety of therapies and treatments that support the Defense Intrepid Network's patient-centered, holistic, interdisciplinary model of care to optimize patient outcomes.





### NEW GROUP HELPS PATIENTS RESTORE THEIR LOVE OF READING

A common complaint after TBI is visual disturbance, which can present as eye strain and fatigue. This can cause once avid readers to avoid the activity. When NICoE clinicians learned that this was the experience of many of their patients, they created the READ group in March 2022. It consists of four weekly group sessions that teach how the brain learns to read, what the eyes do while reading (ocular motor function), strategies for note-taking while reading for academic purposes, and how to improve study skills.

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"This program has helped me positively assess myself and provided a path to improvement." – Patient

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The READ group allows patients to delve deeper into content shared in individual therapy sessions and to learn from peers and guest speakers from the NICoE's rehabilitation team. With this information, patients are better equipped to achieve their goals, including going back to school to complete a degree or getting a promotion by being better able to complete on-the-job tasks associated with reading.

## AUDITORY COGNITIVE LAB: A MUSIC THERAPY AND SPEECH PATHOLOGY CO-TREATMENT OFFERING

Auditory Cognitive Lab (ACL) is an integrative music therapy and speech language pathology clinical offering that helps patients with mild TBI and hearing dysfunction, with specific attention to auditory processing disorders. Most patients in the offering are diagnosed with sensorineural hearing loss, central auditory processing disorder, tinnitus, or a combination. ISC Fort Belvoir created the first ACL offering in 2016. It has since been redesigned and replicated at multiple sites across the Defense Intrepid Network in collaboration with Creative Forces<sup>\*</sup>: NEA Military Healing Arts Network, including ISC Fort Carson, ISC Camp Pendleton, and Joint Base Elmendorf-Richardson (JBER) TBI Clinic. JBER TBI Clinic standardized the ACL treatment protocol for four-, five-, and six-week offerings and to support both the intensive outpatient program (IOP) and longitudinal outpatient program.

Feasibility testing of this protocol is projected to begin at JBER TBI Clinic in 2023 pending Institutional Review Board approval.



"In this program I learned that having processing difficulties is not something to be embarrassed about and I learned ways to overcome the difficulties."

– Patient

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### UNDERSTANDING TRIGGERS AND STRESSORS TO REGULATE EMOTIONS

Service members can protect themselves from undesired responses by understanding how the body's stress response works, recognizing the signs and symptoms of stress overload, and taking steps to reduce its harmful effects. The NICoE IOP includes a three-part Managing Triggers class to help patients understand this process and to learn how to prevent stress overload. The course is conducted in a group format and focuses on emotional regulation, rage circuits and fear responses, social connection, and communication following a TBI or other brain injury. The Managing Triggers class provides education and discussion about psychological health and focuses on insight, understanding, and how to return to a state of calm.

It is not only the patient who must learn about managing life post-TBI. Patients, along with their families, must work through recovery together. In the last week of the IOP, family members are welcome to participate in offerings designed specifically for them, including managing triggers.

## BRAIN FITNESS CENTER STAFF EXPAND ACCESS TO TOOLS ACROSS NETWORK

The Brain Fitness Center is a critical tool of the Defense Intrepid Network. Through the BFC, patients can access a variety of computer-based programs to supplement traditional cognitive rehabilitation services, either in-person, online, or a combination. The BFC also includes a pod where patients can work on heart-ratevariability biofeedback in a closed, optimized environment.

In 2022, BFC staff created new online entry points for all Defense Intrepid Network sites so providers at each location can access the same brain-training tools. This access allows therapists to track individual patient progress and performance over time. Rehabilitation providers can prescribe the computer-based programs to their patients for a year or more to complement the strategies they teach in individual treatment sessions.

The online BFC tools offer high intensity stimulation exercises that target processing speed, memory, attention, and are more customized to fit each patient's level of cognitive function. Based on principles of neuroplasticity, the BFC tools adjust in real time to push patients at a level that's cognitively challenging but not frustrating. The goal is to strengthen cognitive skills and maintain those gains over time. This extends treatment services even after patients transition back home or return to active duty. BFC staff continually measure independent outcomes and track the feasibility and effectiveness of program use to ensure patient treatment is optimized.

## GROUP THERAPY OFFERINGS ACROSS THE DEFENSE INTREPID NETWORK

Group therapy offerings added in 2022 throughout the Defense Intrepid Network

#### **ISC Camp Lejeune**

The four-week Transforming Trauma offering is helping service members understand the overlap between TBI and mental health. It focuses on the psychological injuries of posttraumatic stress, moral injury, and bereavement through the lens of posttraumatic growth. Two additional group offerings include the Sleep Gym led by occupational therapy and the Anger Group through clinical social work services.

#### **ISC Camp Pendleton**

The Cognitive Heath Group (CHG) was created to improve patient outcomes, reduce length of stay, and streamline the cognitive rehabilitation process. CHG is a four-week multidisciplinary group that provides education, strategies, and cognitive exercises to mild TBI patients. The offering integrates occupational therapy, speech therapy, and music therapy and is provided once a week.

#### Joint Base Elemendorf-Richardson TBI Clinic

The Alaskan Gardening Lab aids in concussion recovery by addressing the emotional, physical, and mental aspects of recovery from mild TBI. This weekly, occupation-based group facilitates achievement of patients' individualized post-concussive goals (e.g., balance, mindfulness, stress management, and coordination).

#### ISC Joint Base Lewis McChord (JBLM)

ISC JBLM adapted to staffing challenges by developing an array of group offerings to include: iRest Meditation Group, Introductory Cognitive Behavioral Therapy Skills Group, Emotion Regulation Skills Group, Group Art Therapy, Mindfulness Based Art Therapy, Revise and Restructure: Routine Management, and Stress Management Techniques.

In addition to active-duty service members diagnosed with a TBI who were enrolled in services, a select number of appointments were reserved for active-duty patients not enrolled in TBI services. These offerings provide awareness into what behaviors and activities service members may be doing that contribute to their symptoms, explore ways to manage what they are experiencing, and nurture the mind and body to be successful.



Over 3,000 patients across the Network granted access to the Brain Fitness Center since 2010

## EDUCATION

Education is one of the key focus areas of the Defense Intrepid Network, informing and supporting research and clinical operations. There are three key target audiences for TBI and brain health education—patients and family members, providers, and students (next generation providers).

Education is provided via Grand Rounds, medical and research conference participation, didactic lecture series, community educational events, and webinars—both in-person and virtual. Each Defense Intrepid Network site utilizes different ways to provide education to patients, family members, providers, and partners.

The Defense Intrepid Network is well-positioned for 2023 to share knowledge within and beyond the network. It helps each site to learn from one another and to support the vision of being a global leader in TBI and brain health care, research, and education.

## NICOE EDUCATION OFFERINGS

Within the education offerings of the Defense Intrepid Network, each Network site utilizes various approaches within and beyond its site, including coordinating with other organizations to reach students, providers, and family members/caregivers. Within the NICoE, there are multiple series targeting various audiences.

The TBI Didactic Lecture Series is designed to provide medical residents at Walter Reed National Military Medical Center (and other participants) with information and insight into TBI assessment, research, and the interdisciplinary model of care. The series is held in-person on Fridays throughout the academic year.

The Diversity, Equity, Inclusion, and Access (DEIA) Seminar Series began in 2022 and is expanding to virtual attendance in 2023. This series is held throughout the year to create DEIA-informed leadership, health care practitioners, and staff members. Over 100 NICoE staff have attended the series, which includes, The Language of Diversity, Recognizing and Responding to Microaggressions, and Operationalizing Solutions to Address Implicit Bias.

The NICoE Education Webinar Series features guest lectures that are streamed online and available in-person, offering accessibility to the public near and far. Lectures cover TBI-related topics on anything from clinical care to research to patient experience considerations.

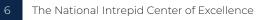
Interdisciplinary TBI Grand Rounds feature a brief presentation by thought leaders and experts in the field, followed by a moderated discussion and question-andanswer session for participants. Key topics are discussed collaboratively and the focus is on the appropriate application of new findings for clinical care and future research.





"It is a fact that we live in a diverse world; inclusion is a choice. When we choose to learn different perspectives, our practice as clinicians, administrators, and researchers deepens. DEI education affirms our commitment to actualizing health care equity and to delivering care that heals the whole person." – WRNMMC DEI Officer & NICOE Staff Member

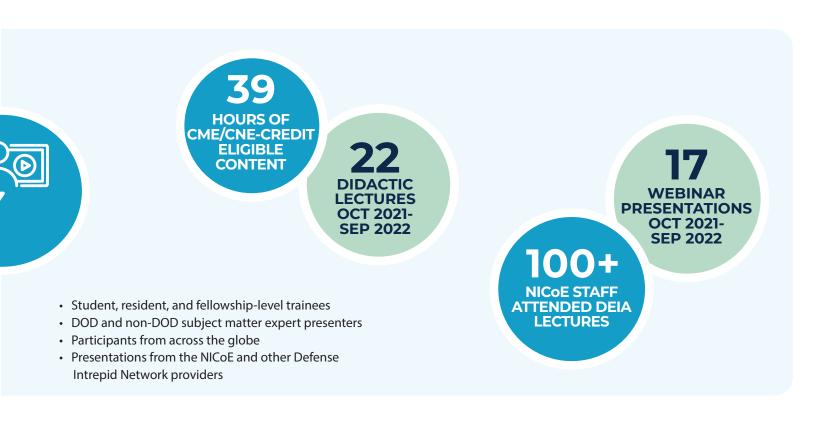




### EXPERIENTIAL LEARNING

As a directorate of an academic teaching hospital, the NICoE regularly accepts students at various points in their education to offer mentoring, observation hours, clinical and research experiences, and fellowship-level training. The NICoE offers two types of experiential learning, depending on education stage. High school students, college students, and graduate students apply to complete an observational rotation of 1-30 days, shadowing providers from the NICoE's many in-house specialties. Students can also complete traditional academic rotations and clinical experiences, typically several months long, where schools enter into training agreements with WRNMMC to learn how to provide hands-on care under the supervision of a NICoE provider. Most experiential learning participants are in an allied health field (physical therapy, occupational therapy, audiology, vision, music therapy, etc.). Strong relationships with WRNMMC and the Uniformed Services University of the Health Sciences offer students and residents the ability to tailor a specific clinical or training experience to their interest or niche focus area. The NICoE fosters a learning environment that some former students have referred to as, "THE site students want to come to."

This year saw an increase in students completing a clinical observation or rotation after a notable decrease during the pandemic. In 2022, the NICoE hosted over 20 students in clinic and welcomed countless others to participate in-person or virtually during training lectures or webinars.





"My exposure to the NICoE staff and patients was richly instructive and embodied excellent patient care coordination and customization. I was so struck by the personal and personalized nature of the treatment of not just the patient, but the family as well. Truly amazing!"

– Student

99

## RESEARCH

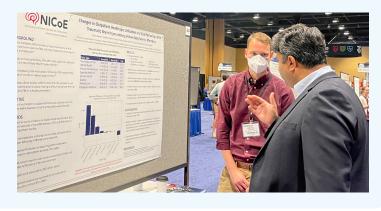
The Defense Intrepid Network has been working to sharpen the understanding of the effects of TBI and associated health conditions through interdisciplinary research teams and partnerships. Our commitment to working with a wide range of partners creates a collaborative environment that produces significant and relevant research, improvements to clinical care, and advances in education. These selected studies from the NICoE and across the Defense Intrepid Network are a small sample of the vast research being conducted.

## EVALUATION OF QEEG DURING ART THERAPY IN SERVICE MEMBERS WITH CO-MORBID TBI AND POSTTRAUMATIC STRESS SYMPTOMS

Many service members returning from deployment present with co-morbid mild TBI (mTBI) and behavioral health symptoms. Art therapy may address some of these conditions. However, there is a gap in knowledge regarding art therapy's underlying neurobiological mechanisms. The purpose of this project is to conduct a longitudinal study collecting mobile, quantitative EEG (qEEG) directly before, during, and after art therapy sessions to assess the impact of art therapy on brain networks and associated behavioral health symptoms. Up to 24 service members with simultaneous mTBI and posttraumatic stress symptoms will participate. The goal of the study is to investigate brain signals associated with art therapy processes and to generate preliminary data examining the effectiveness of art therapy in service members. Findings from this study may be used to guide future research in the creative arts therapies and to offer creative arts therapists' greater insight into the mechanisms of art therapy.

## MHS RESEARCH SYMPOSIUM SHOWCASES DEFENSE INTREPID NETWORK RESEARCH

Defense Intrepid Network staff attended the 2022 Military Health System Research Symposium (MHSRS) in Florida in September to develop new connections and to foster existing research partnerships across academia, the U.S. government, and industry organizations. Network staff contributed more than 30 presentations that showcased a wide range of studies aimed toward characterizing TBI, blast exposure, and associated psychological health conditions. Presentations included those that focused on investigating long-term outcomes and potential therapeutic interventions. In addition, leaders of the Defense Intrepid Network hosted a special event to share its history, capabilities, and research focus areas, and to engage with MHSRS attendees.



#### In 2021 and 2022 at the NICoE



## NUTRITION FOR POSTTRAUMATIC HEADACHE STUDY

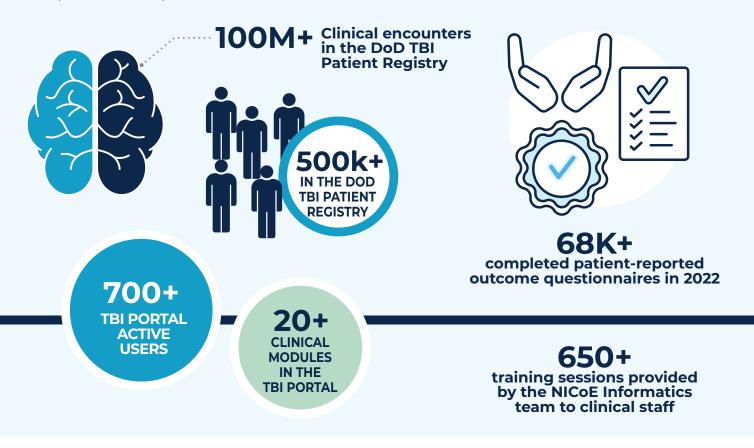
This multisite, double-blind, two-arm, randomized clinical trial (RCT) of a dietary intervention for chronic posttraumatic headache (PTH), funded by the Congressionally Directed Medical Research Programs, was completed in 2022. Chronic PTH is more prevalent among active-duty military than civilian populations, and has recently been shown to be more difficult to treat than PTH among civilian TBI survivors. The study investigated food as a novel PTH treatment through a dietary manipulation of essential fatty acids that have been linked to migraine pain propagation. Clinical and dietary analyses are underway. If successful, this RCT will support a safe, nonmedicinal, dietary (food as medicine) therapy that effectively reduces chronic PTH burden and may reduce overall pain.

## PSYCHOMETRIC EVALUATION OF THE CAPS-5 AND PSSI-5 IN AN ACTIVE-DUTY AND MILITARY VETERAN SAMPLE

The CAPS-5 and PSSI-5, the two most utilized clinical assessment tools for diagnosing and treating posttraumatic stress disorder (PTSD), need to be evaluated for their utility and reliability, especially in service members. This study will evaluate the psychometric properties of the CAPS-5 and PSSI-5 assessment tools in active-duty military personnel and veterans. Biomarkers believed to be related to PTSD (e.g., fluid biomarkers, neural activity as measured by EEG) will be collected to inform targeted interventions in specific groups of patients. The knowledge gained from this study will directly impact the ability of clinicians to reliably diagnose PTSD and assess PTSD symptom severity. It will also directly impact success in the development of novel treatments for PTSD.

## TBI DATA ENHANCES PATIENT-CENTERED CARE AND OUTCOMES

The NICoE and Defense Intrepid Network Informatics teams function as the TBI data steward for the Defense Health Agency. As part of that function, the Network manages and maintains five enterprise capabilities for the TBI community and partnering organizations. The enterprise capabilities include: the DoD TBI Patient Registry, the largest and most comprehensive repository of longitudinal clinical data of over 500,000 patients that have sustained a TBI since 1999; the TBI Portal, the clinical interface to the TBI patient registry that provides a consolidated view of data to inform clinical decisions; the TBI Dashboards, a suite of enterprise metrics and reports to monitor the incidence of TBI and health outcome measures; the TBI Resources Center, a comprehensive repository of information and documents to enable standardization and evidence-based practices across TBI clinics; and the Clinical Assessment Management Portal, a system to collect and incorporate patient-reported outcomes at the point of care. The variety of clinical modules allows for a unique application for providers to leverage each capability. These capabilities have enabled the Defense Intrepid Network to be a data-driven organization and a Department of Defense platform for data innovation in military health.



## MULTISITE ADVANCEMENT OF RESEARCH ON CHRONIC POSTTRAUMATIC HEADACHE

The Multisite Advancement of Research on Chronic Posttraumatic Headache (MARCH) at ISC Fort Hood aims to determine the effectiveness of Combined Cognitive-Behavioral Therapy (CCBT) and Telemedicine-Based Combined Cognitive Behavioral Therapy (TCBT) for posttraumatic headache. The study compares 525 active-duty service members and veterans in the CCBT and TCBT groups to treatment as usual across seven geographically dispersed sites. The study aims to 1) determine the effectiveness of CCBT and TCBT (both using manualized intervention) for PTH compared to treatment as usual; 2) establish the non-inferiority of TCBT to CCBT in the treatment of PTH-related disability (only pursued if either CCBT or TCBT is superior to treatment as usual); and 3) assess the contribution of different types of treatment effects on PTH treatment outcome. Researchers plan to use procedures from the Predictive Approaches to Treatment Effect Heterogeneity statement (PATH). Research protocols will start in early 2023. The results of the study will provide clinicians with additional treatment options for service members with PTH.

### THE CARE-SALTOS INTEGRATED (CSI) STUDY

The CARE-SALTOS Integrated (CSI) Study: Characterizing Potential Chronic Brain Health Effects of Concussion and Repetitive Head Impact Exposures – Military Cohort Tier 2 is led by the Uniformed Services University of the Health Sciences across sites in the Defense Intrepid Network, with the NICoE as the lead site. The study follows up with previously assessed military service academy cadets/ midshipmen to address questions about potential long-term effects of mTBI and head impact exposure (HIE).

The study aims to: 1) characterize the relationship between mTBI, repetitive HIE, and brain health outcomes up to 10 years following an athletic and military service academy career in the domains of neurological and psychological health, cognition, quality of life, and career/military performance; 2) characterize the relationship between mTBI and/or HIE on brain structure and function up to 10 years following an athletic and military service academy career, using advanced neuroimaging (multimodal MRI, genomic and proteomic markers of neurodegeneration, and neuroinflammation) performance; and 3) develop a multidimensional algorithm that predicts brain health up to 10 years after HIE. Research protocols will start in early 2023. Results of the study will provide researchers with important information concerning the trajectory of mTBI and HIE over 10 years.

### COMPLEX ASSESSMENT OF MILITARY PERFORMANCE (CAMP)

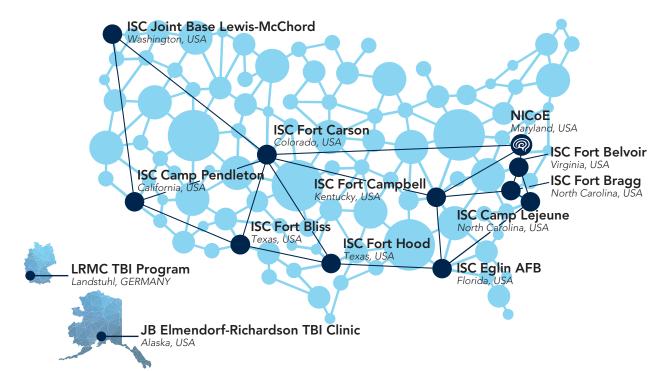
ISC JBLM is leading a study to improve TBI diagnostic capabilities by validating a complex physical test battery. The Complex Assessment of Military Performance (CAMP) project leverages lessons learned in the Assessment of Military Multitasking Performance (AMMP) project to refine tasks to develop a test battery for rehabilitation.

The three-year study will validate a test battery that integrates three tasks from the AMMP project using post-exertion measures with sensitive movement and physiologic metrics. CAMP uses inexpensive equipment in typical clinical space, allowing testing in garrison and more austere environments. There are four aims: 1) establish typical performance parameters for active-duty service members on the CAMP test battery; 2) determine CAMP battery elements that differ greatly from standard performance and that are the strongest predictors of return-to-duty decisions for 150 individuals with mTBI at three collaborating sites; 3) develop feedback interfaces using healthy control data to provide information for clinicians and patients about performance on each task based on average values for performance and physiologic measures; and 4) develop materials to share the CAMP application with Defense and Veterans Brain Injury Center and other military stakeholders.

## PRAZOSIN FOR PROPHYLAXIS OF CHRONIC POSTTRAUMATIC HEADACHES IN OEF/OIF/ OND SERVICE MEMBERS AND VETERANS WITH MILD TRAUMATIC BRAIN INJURIES

Headaches following mTBI are common, can be resistant to standard therapies, and may persist or worsen to become a debilitating chronic pain syndrome. ISC JBLM formed a unique and powerful partnership with the Veteran's Administration-Puget Sound Health Care System in a study that demonstrated the effectiveness of Prazosin as a treatment option for posttraumatic headaches. Prazosin is currently FDA approved for reducing high blood pressure and commonly prescribed in the management of nightmares and sleep disturbances associated with PTSD. The study found Prazosin to be highly effective compared to placebo at reducing the frequency of headaches and in reducing headacheassociated disability per the HIT-6 scale. Except for a small study of botulinum toxin, no other medication has been demonstrated to be superior to placebo for treating posttraumatic headaches. Prazosin for treatment of posttraumatic headaches has several advantages for active-duty service members as it is not sedating, is not a psychiatric drug, and does not impact deployment status.

## Defense Intrepid Network for TBI & Brain Health



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## A PLACE TO HEAL THE INVISIBLE WOUNDS OF WAR

## The National Intrepid Center of Excellence

The NICoE is headquarters of the Defense Intrepid Network for TBI & Brain Health 4860 South Palmer Road | Bethesda, MD 20889

For more information on the NICoE, please visit our website: www.health.mil/nicoe

We value your feedback. Contact us at: <u>dha.bethesda.j-11.mbx.nicoe-pao@health.mil</u>

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