



U.S. Army Research Institute of Environmental Medicine

Optimizing Warfighter Health and Performance Through Biomedical Research

The U.S. Army Research Institute of Environmental Medicine is internationally recognized as the DoD's premier laboratory for Warfighter health and performance research and focuses on environmental medicine, physiology, physical and cognitive performance, and nutrition research. Military guidance has been published for operations in heat, cold, and high-altitude environments and nutrition for health and performance.

USARIEM is a subordinate command of the U.S. Army Medical Research and Development Command, under the Army Futures Command. USARIEM is co-located with Soldier Systems Center in Natick, Massachusetts. Located a short distance from Boston, the institute has unique facilities and is in close proximity to many of the finest universities and medical research centers, enabling collaborative efforts.

Partnering Globally

USARIEM collaborates globally with academia, industry, and other federal and DOD organizations. Our partners benefit from our unique facilities and extensive experience in field and laboratory studies. Our collaborations aid our transitions of our scientific research findings to the Warfighter. USARIEM biomedical research provides validated solutions for mitigating injuries and optimizing physical and cognitive performance in austere environments.

For more information on partnering with us:
<https://usariem.health.mil/index.cfm/partnering>

For more information on how to work with us:
<https://mrdc-npi.health.mil/>

Protect, Project, Sustain... Optimize Lethality

Research Platforms



Pikes Peak High Altitude
Research Laboratory (HARL)
14,115 feet above sea level



SFC Monti Building
EST2000 Marksmanship Training
Cognitive Science
Biomechanics



Bone
Health
Lab



Clothing
Biophysical
Chambers



Doriot
Climatic
Chambers



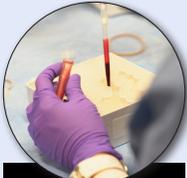
Hypobaric
Chamber



Metabolic
Kitchen



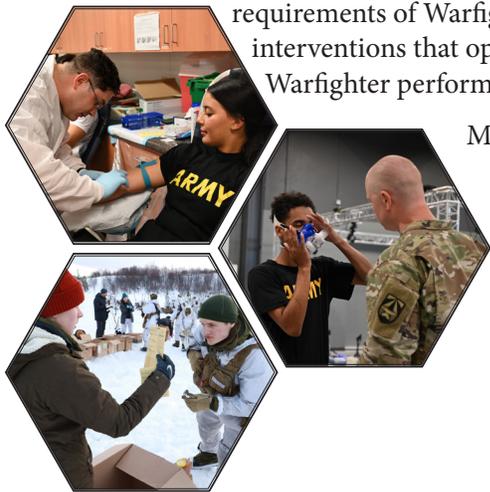
Water
Immersion Lab



Central Lab

Military Nutrition Division

Our Military Nutrition Division conducts nutrition research that provides the biomedical science basis for developing new rations, menus, policies, and programs to enable Warfighter readiness, optimize performance, and enhance lethality. MND defines the physiological nutrition requirements of Warfighters and assesses interventions that optimize and enhance Warfighter performance.



MND focus:

- Physiological Resilience
- Performance & Recovery
- Dietary Supplements
- Eating Behaviors
- Military Feeding & Combat Ration Support

Thermal and Mountain Medicine Division

Our Thermal and Mountain Medicine Division supports Warfighter health, readiness, and the military materiel development of clothing, equipment and interventions. TMMD conducts research to sustain and enhance Warfighter performance and minimize medical risks associated with military operations at environmental extremes, including hot, cold, high-terrestrial altitude, and subterranean environments.

TMMD research expertise encompasses:

- Pathophysiology
- Heat Stress
- Cold Stress
- High Altitude
- Multifactorial Environments



Military Performance Division

Our Military Performance Division provides relevant, scalable, evidenced-based solutions to optimize Warfighter readiness and performance in all environments.



The MPD core research focus:

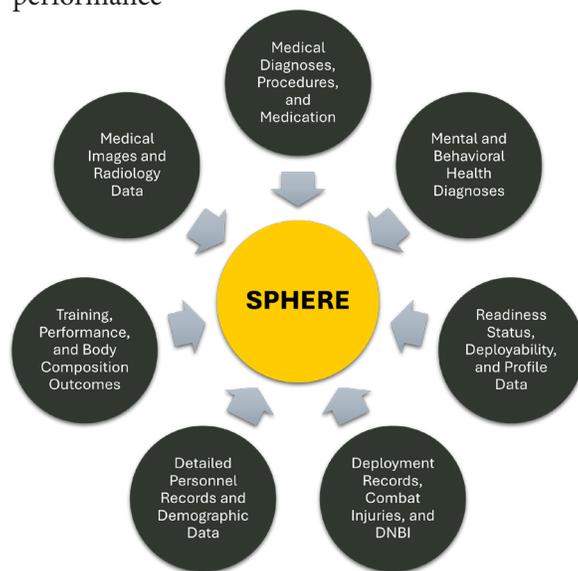
- Cognitive Readiness & Resiliency
- Physical Readiness
- Musculoskeletal Injury Reduction & Recovery
- Injury Epidemiology

With this expansive multi-disciplinary expertise, the MPD is routinely involved in the development, analysis, and evaluation of Army initiatives and policies aimed at Warfighter readiness, performance optimization, and injury reduction.

Soldier Performance, Health, and Readiness Database

The Soldier Performance, Health, and Readiness Database (SPHERE) is a vast data repository that contains population-level data from all U.S. military service branches that are aggregated from multiple disparate DoD agencies.

- Collects and maintains current and historical performance, health, and personnel data
- Provides detailed data reporting and is used for health economic and epidemiological research on health and performance



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