



# NAVY MEDICINE

WORLD-CLASS CARE...ANYTIME, ANYWHERE

## Naval Medical Research Unit Dayton

The Naval Medical Research Unit Dayton is a major DoD medical research command, as well as the home of the Naval Aerospace Medical Research Laboratory and the Environmental Health Effects Laboratory. As a subordinate command to Naval Medical Research Center, NAMRU-Dayton conducts aerospace medical and environmental health effects research to enhance warfighter health, safety, performance, and readiness. NAMRU-Dayton's research addresses identified fleet needs, and results in products and solutions ranging from basic knowledge, to fielded technologies.

Our co-location with the Air Force's 711th Human Performance Wing at Wright-Patterson Air Force Base facilitates direct collaboration and allows us to leverage their extensive research capabilities.




### MISSION

To maximize warfighter performance and survivability through premier aerospace medical and environmental health effects research by delivering solutions to the field, the fleet and for the future.

### VISION

By working with military, government, academic and industry partners, we will develop innovative solutions for the aeromedical and environmental health threats faced by our Navy and Marine Corps.

### CONNECT WITH US

-  @NavalMedicalResearchUnitDayton
-  @NAMRUDayton
-  Naval Medical Research Unit Dayton

**Commanding Officer:**  
CAPT Matthew W. Hebert  
Medical Service Corps  
United States Navy



**Executive Officer:**  
CAPT Dennis Faix  
Medical Corps  
United States Navy





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## Research

NAMRU-Dayton is the DoD's premier research institute for the study of cognitive and physiological impacts on warfighter performance of aerospace, toxic and other austere environments. NAMRU-Dayton uses the complete range of medical research tools, from molecular analysis to human subjects protocols, to achieve operationally-relevant answers.

### Environmental Health Effects Laboratory

Chemical stressors

- Fuels
- Oils
- Exhaust fumes
- Smoke
- Particulate matter

Physical stressors

- Temperature/humidity
- Pressure noise from ocean depths to space

Particulate matter

Combinations/Co-stressors

DoD's largest exposure lab

### Naval Aerospace Medical Research Laboratory

Altitude effects

Fatigue assessment & mitigation

Acceleration & motion effects

Motion sickness countermeasures

Spatial disorientation mitigation

Aircrew neck/back pain & injury

Vision standards & performance

Aviation personnel selection testing (manned & unmanned)

En route care

## Consultation

NAMRU-Dayton's scientists are among the most accomplished researchers in the DoD, providing Line commanders and other DoD leaders a ready source of expert consultation. NAMRU-Dayton scientists participate on DoD scientific panels, scientific advisory boards, Root Cause and Closure Analysis teams as well as providing tailored consultation and subject matter expertise as required.

## Education & Training

While NAMRU-Dayton is not a training institution, we partner with educational institutions such as the Uniformed Services University of the Health Sciences, Air Force Institute of Technology and regional universities to provide students unique, one-of-a-kind research experiences in support of their professional development.

## Partnering with NAMRU-Dayton

NAMRU-Dayton is a completely "reimbursable" research command based on the civilian academic model. As such, we work closely with Type Commanders, Fleet/Force Surgeons and other Line commanders to ensure our research is aligned with the needs of the Fleet, Marine Corps and other military services. In concert with the Line, we seek out interested funding sponsors to resource our research and other projects. Previous sponsors have included the Defense Health Agency, Navy Bureau of Medicine and Surgery, NAVAIR, Office of Naval Research, Air Force Research Lab, Army Military Operational Medicine Research Program, NASA and the Defense Threat Reduction Agency, to name a few. If you have an idea to benefit our warfighters, we can often work together to find an interested funding sponsor.