

CTR Expeditionary Medical Encounter Database

(CTR EMED) Overview

Medical Mission Support

Problem and Requirement

The US Navy-Marine Corps must collect, examine, and record combat injury and clinical treatment and outcome data to improve readiness for casualty treatment to inform medical providers and planners who allocate supply and personnel needs.

Solution and Product

To meet this challenge Naval Health Research Center (NHRC) collects medical records for sick and injured personnel during deployment. The records are compiled into the CTR Expeditionary Medical Encounter Database (CTR EMED).

Approach and Results

The CTR EMED is a data repository providing an objective source of clinical data from which to determine theater medical requirements. CTR EMED data are obtained from clinical records generated as sick or injured casualties move through the medical chain of evacuation. When viewed systematically, these records provide a rich source of objective data which provide the foundation for evaluating and improving clinical care for US service members sick or injured during deployment.

It has always been a challenge for researchers that medical treatment data become increasingly sparse the closer one gets to the point of illness/injury. To address this issue, NHRC works closely with theater medical providers to incorporate procedures for collecting casualty medical data as close to the point of illness/injury as possible. In addition, the CTR EMED capability integrates these data with other DoD datasets including tactical data sets, the Military Health System (MHS), and deployment and personnel-related datasets. This integration allows researchers at NHRC to perform studies and analyses across the entire spectrum of triservice deployment-related injury and illness including traumatic brain injury, psychological health and PTSD, and illness and injury rehabilitative and quality of life outcomes.

Benefits

The CTR EMED is a large objective resource for studies and analyses on injury epidemiology, injury prevention, and personal protective equipment, clinical practice guidelines and the development of policy and doctrine.

The CTR EMED is a robust source for clinical data from which to identify those areas within the medical chain of evacuation most likely to benefit from technology development and expenditure of training resources.

The CTR EMED is the first comprehensive database of sick and injured service members from which to assess the quality of care administered in forward areas and to relate this care to rehabilitative outcomes and ultimate quality of life.

NHRC
Naval Health Research Center

Supporting the biomedical and psychological health and performance of the Navy and Marine Corps

