

Research Partners:



White House
Medical Unit



United States Special
Operations Command



Loma Linda University
Medical Center

NMTB National Medical
Technology Testbed



Theater Medical Information Program

Providing Interoperable medical information systems to protect combat power worldwide

Near Term R&D 03-05

- Veterinary
- COSCWARS
- Preventive Medicine
- BMIS-T Logistics (DMLSS)
- Interface to sensor devices
- EFMB Training games
- Hands-Free Automatic Speech Recognition
- Tactical Radio Interoperability
- TACLAN Interoperability
- Increased Security
- Ultra Wide Band



Contacts:
Mr Tommy Morris, Ms Christine Streeter
Phone: 301-619-2072
Fax: 301-619-3144
Email: morris@tatrc.org
www.tatrc.org

USAMRMC, TATRC

MCMR-AT, TATRC
Bldg 1054 Patchel Street
Fort Detrick, Maryland 21702-5012

Special Thanks to Mr Bob Clayton,
HQ USSOCOM, Bio Medical R&D Coordina-
tor, for his contribution of the awesome graph-
ics.

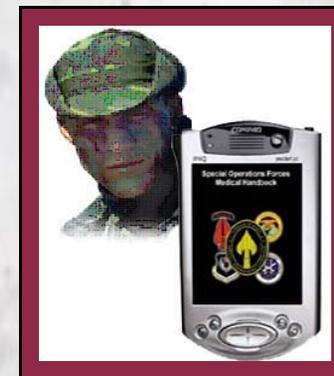


Telemedicine & Advanced Technology Research Center

Cutting Edge Medical Technology

BMIS-T

Battlefield Medical information System-Tactical

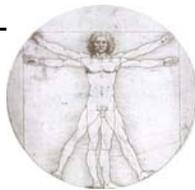


U.S. Army Medical Research And Materiel Command

Medical Research,
Technology, and Materiel for
the 21st Century Soldier,
Sailor, Airman, Marine



BMIST



OPTIMIZING PATIENT CARE

BMIST is a point-of-care hand-held assistant that enables military health-care providers to record, store, retrieve and transmit the essential elements of clinical encounters in an operational setting. Reference materials, diagnostic and treatment decision aids, and logistic support software can also be included, facilitating patient care, skill sustainment training, and mission planning. Initially designed for Special Forces medics and other first responders, BMIST can be used by providers at all echelons along the healthcare continuum. As medical practice evolves, BMIST has the flexibility to incorporate new procedures and protocols, medical databases, and mission requirements.

ESTABLISHING A LONGITUDINAL MEDICAL RECORD

BMIST can be pre-populated with soldier medical information prior to deployment. In theater, BMIST can interface with CHCS II-T and the Special Operations Forces Health Surveillance Repository directly or indirectly via an electronic information carrier. A true longitudinal patient record can be established, bridging the gap between pre-deployment and post-deployment healthcare information. Continuity in the medical record optimizes not only clinical care, but also the ability post-deployment to better understand the phenomenon of war-related medically unexplained symptoms.

FACILITATING MEDICAL SURVEILLANCE

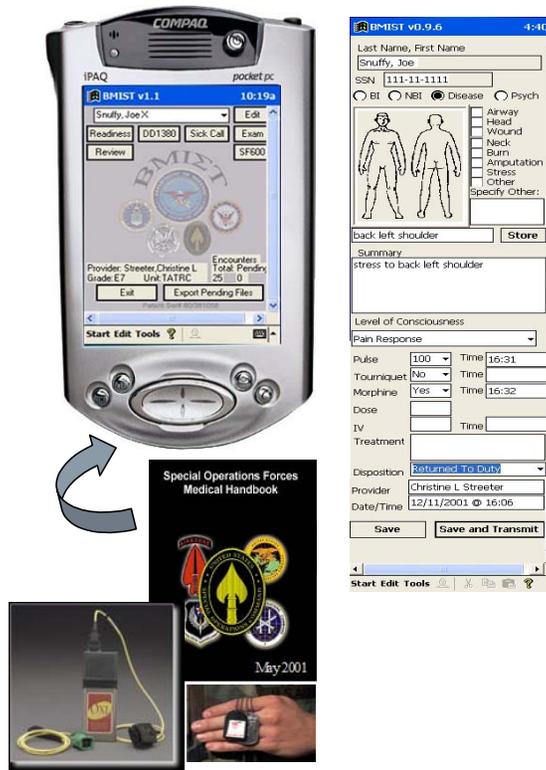
BMIST records the history, physical exam, and disposition in structured data fields (ICD-9, DNBI, MEDCIN), while also permitting some free text entry. SOF and TMIP surveillance modules, such as LERSM, MSS, and MDSS, can evaluate the structured data to assess the status of the fighting force. Capturing soldier healthcare information at the level of the first responder maximizes the amount of medical data available for theater medical surveillance. When adequate communications are available, BMIST can facilitate real-time transfer of medical information from the point-of-care.

Embedded Functions:

- Electronic Medical Record
- Interactive Medical Reference Library
- Clinical Guidelines
- Medical Sustainment Training
- Medical Surveillance
- Automatic ICD9 Coding
- MEDCIN mapping
- MILES Casualty Integration

Security:

- PDA Defense High level Blowfish Encryption (Encrypts entire device or individual containers)
- Embedded Security



Electronic Medical References:

- Special Operations Forces Medical Handbook (SOFMH)
- Handbook of Veterinary Care
- Biological Casualties
- Medical NBC Battlebook
- MEDIC, Medical Environmental Disease Intelligence & Countermeasures
- Field Operators Guide

Interfaces:

- Theatre Medical Information System (TMIP)
- Composite Health Care System II (CHCSII) Completed
- SOCOM Health Surveillance System (SOCOM HSS) Completed
- Global Expeditionary Medical System (GEMS) Prototype Interface completed.
- Personal Information Carrier (PIC) Completed

Certifications:

- SIPRNet
- DITSCAP
- HIPAA Compliant
- DICOE II compliant
- SSAA



White House Medical Unit

The Tri-service physicians, nurses, and physician assistants of the White House Medical Unit are using BMIST as their point of care solution for clinical data capture during travel operations supporting the President and the Presidential Staff.

"BMIST is an extremely powerful tool, capable of both meeting our basic requirements and enhancing the performance of our medical mission."

-LTC William Lang,
Deputy Director, White House Medical Unit

Special Operations Forces (SOF) Deployment Health Surveillance System (DHSS)



BMIS-T will be used for the PHASE II of Special Operations Forces Health Surveillance System, which is a comprehensive program to systematically collect, analyze, disseminate and archive all SOF personnel health events (battle, non-battle, environmental and occupational) into a single accessible electronic medical record for every individual at the point of care. The BMIS-T meets operational requirements for a point of care data entry and management tool which necessitates a small "foot-print" device. This health surveillance capability will provide a robust platform for hand held data entry at the point of care, remote data transmission and storage, and central database queries from the SOCOM HSS repository.

"HSS/BMIS-T is the SOF answer to the 1997 Congressional Mandate. We Medics are obligated to follow and protect our SOF warriors from 'bootcamp to grave' it is mandatory and not an option."

-COL David Hammer,
HQ USSOCOM, Command Surgeon.

Phase II HSS/BMIS-T will soon be issued to front line SOF Health Care Providers (HCP) and taught in the joint special operations medical training center (JSOMTC). The enlisted SOF HCP has asked for a diagnostic tool to assist them in the field. Phase II will begin to answer this need. Future changes will be suggested by front line medical operators; to provide the best medical diagnostic tool to the best health care providers.

-MSG Michael Brochu,
HQ USSOCOM, Senior Enlisted Advisor