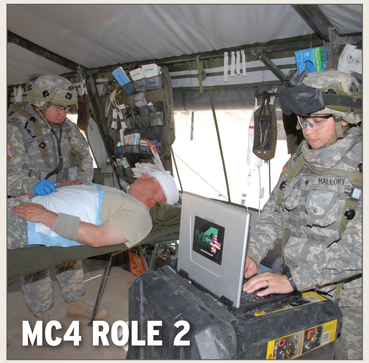
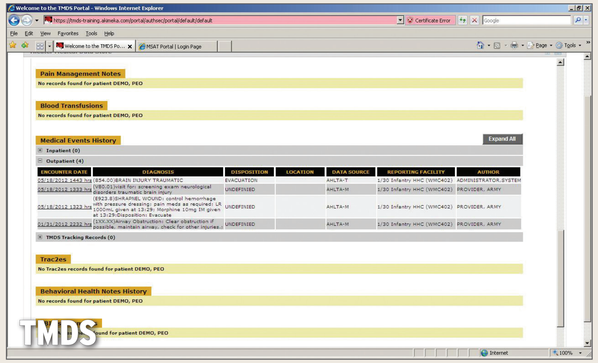
THE MC4 PROCESS

Electronic Medical Record Flow – Battlefield to U.S.

Medical Communications for Combat Casualty Care





MC4 Role 1

Medics or physician assistants can record patient care via a handheld device or MC4 laptop. The handhelds and laptops act as a point-of-injury assistant, enabling military providers to record, store, retrieve and transfer the essential elements of patient encounters, ensuring initial treatment information becomes part of the casualty's lifelong electronic medical record, as well as disclosing critical injury information to providers at the next level of care.

MC4 Role 2

During Role 2 care, medical providers utilize a variety of joint software applications on MC4 laptops. Using MC4 laptops, providers can record patient vitals, document procedures and treatments and upload patient records.

MC4 Role 3

At Role 3 medical treatment facilities, such as a combat support hospital (CSH), providers use MC4 systems to their fullest potential, including the use of handhelds, laptops, servers and printers. Here, they can use the system to document inpatient or outpatient care, facilitate laboratory, radiology or pharmacy orders, track patients, order medical supplies and more.

View Patient Records & Reports

All medical data captured at Roles 1 through 3 are forwarded to the Theater Medical Data Store (TMDS) and the clinical data repository (CDR). TMDS allows providers the ability to view patient records digitally captured on the battlefield using the MC4 system.

Additionally, data stored in TMDS flows into the Medical Situational Awareness in the Theater (MSAT), a medical surveillance tool on a classified network that allows unit commanders to access a summary of reports and delivers enhanced medical situational awareness of medical assets in the combat zone.

DoD Role 4

At Role 4 medical treatment facilities, such as Landstuhl Regional Medical Center (LRMC) in Germany or Walter Reed National Military Medical Center (WRNMMC) in Bethesda, Maryland, medical providers use the AHLTA program to digitally record and retrieve patient information. AHLTA is the stateside version of AHLTA-Theater, the deployed outpatient electronic medical record application. AHLTA allows providers the ability to view and access battlefield medical records through the clinical data repository (CDR). The CDR is located in the United States and holds all electronic medical records of U.S. Service members injured on the battlefield.

VA Hospitals

The Department of Veterans Affairs maintains the Bidirectional Health Interface Exchange (BHIE) server, which collects data from both the VA and the Department of Defense and enables the sharing of medical data between both agencies. This allows injured U.S. Service members the ability to retrieve records of treatments related to battle, affording them rights to VA medical benefits.

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