Tactical Medical Coordination System (TacMedCS)

Purpose: To develop a prototype system to enhance casualty evacuation via an *individual casualty locator* and provide an electronic, redundant patient treatment record retrievable from external locations.

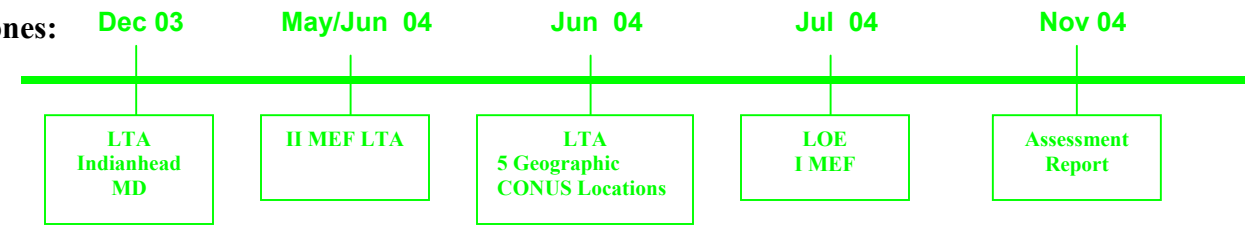
Background: Since a current system does not exist, the Lab in collaboration with Marine Corps Systems Command and the Navy Medical Department is developing a prototype system to enhance casualty evacuation. The system is intended to ease locating casualties for evacuation and to provide treatment record redundancy. The relevant operational requirement document is the Theater Medical Information Program (TMIP). The JV2010 *En route Care Seminar* also indicated that this capability is needed.

Description: The Tactical Medical Coordination System will provide In Transit Visibility/ Total Asset Visibility (ITV/TAV) for casualties. This system exploits passive Radio Frequency Identification (RFID) technologies to automate some of the casualty evacuation process. This system differs from Common Access Card (CAC) and other alternative approaches to digital medical information. TacMedCS is appealing because it is a Radio Frequency based system, which doesn't require contact with the device to be able to read and write data. There is no need to remove clothing or protective gear. The tag has been tested through MOPP gear, Kevlar body armor, and various other forms of military clothing. The tag is passive. It will only transmit approximately one foot away, and only when interrogated with a RFID scanner.

The System includes four basic components: a tag, handheld RFID tag scanner, lap top computer system, and central database server. Database information will be password protected and iridium satellite communications equipment used in this system will include standard commercial encryption approved for Department of Defense users.

Deliverable Products: Prototype hand-held concept demonstrator and assessment reports.

Milestones:



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