

MARINE CORPS WARFIGHTING LABORATORY

Expeditionary Medicine is a family of products designed in a joint effort by the Lab, Marine Corps Combat Development Command, Marine Corps Systems Command, Office of Naval Research, Defense Advanced Research Project Agency, NHRC, industry, universities and many others to increase the survivability of Navy and Marine Corps personnel in a combat environment. Products and technologies currently being developed are described below:

The **Medical Assault Pack (MAP)** fulfills the operational need for a comprehensive field portable medical bag capable of storing personal non-medical equipment needed in a combat environment.

The purpose of the **Individual First Aid Kit (IFAK)** is to place greater first aid capabilities in the hands of Marines who could be called upon to administer critical assistance to themselves or other casualties. It consists of simple, easy to use, high pay-off technologies intended to improve survival and reduce the effects of combat injuries on mission accomplishment.

QuikClot is a sterile, traumatic wound treatment that rapidly arrests high-volume blood loss and achieves hemostasis in large wounds, arresting hemorrhage. QuikClot speeds coagulation in moderate-to-severe wounds, including high-volume venous and arterial bleeding. Made of a granulated mineral substance, it is biologically and botanically inert, leaving little chance of allergic reaction. It represents an opportunity to save the lives of trauma victims who would otherwise bleed to death before they could be moved to an operating room setting.

Casualty Modeling and Simulation

FIRST AID KIT *fact sheet*



Technology intended to support analysis into characterizing changes in wounding types and distributions of injuries in asymmetric warfare and MOUT. Database to be utilized in the analysis of ability to provide appropriate medical care under remote and austere environments characteristic of Expeditionary Medicine casualties.

Enroute Care is the technology intended to improve the ability to transport unstable casualties from forward operating areas to the sea base. The Enroute Care initiative provides personnel and material to rapidly convert opportune transport to attended medical transport platforms to support seriously injured but stabilized casualties during casualty evacuation.

info: **Public Affairs Office:** (703) 784-5170
DTD: December 10, 2003



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