

# Newsletter



## Aerospace Medicine Research Center

Fisher Brothers Institute for Air & Space Strategic Studies

Founded By the Israel Air Force Association

Israel Air Force Center. 15 Jabotinsky, Herzliya. Israel Tel: +972 9 9510260, Fax: +972 9 9510261

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### Mobile Life Support for Trauma and Transport (MLSTAT)

The Mobile Life Support for Trauma and Transport (MLSTAT) system designed to incorporate the latest innovated telemedicine technologies, newly wireless medical sensors, RFID capabilities and "lessons learned" from the most recent military action at the second Lebanon war in 2006.

The MLSTAT is in a way the next generation of the Life Support for Trauma and Transport (LSTAT™) and the DARPA Trauma Pod. With the collaboration of technologies from research and universities groups with the leading medical device industries partners the autonomously Mobile Medical Monitoring system integrates a tele-monitoring and intervention capabilities .



The Wireless Touchable Sensors assess the vital signs measures of basic physiology passively, without the use of electrodes, leads, cuffs or canola. The RFID Network - transfer medical data from a wrist band or other personal RFID Tags trough the vitals collected during the evacuation process till

the definitive medical treatment. The active RFID medical personal casualties "cards"

Utilizes state-of-the-art wireless connectivity to monitor the soldier and determine the location and condition of each wearer .

The Medical Logistic Carriage Platform is planned for disposable of personal medical supply used on particular casualty between evacuation cycles. This will decrease the time needed to be ready for next round of evacuation missions.

With the collaboration of technologies from research and universities groups with the leading medical device industries partners the function needed for the new MLSTAT were utilized. Taking in consideration the need for low weight, new materials and textile, wireless vitals signs mobile monitoring solutions, RFID technology, flowchart of current air medical evacuation activities that may be applicable in certain scenarios

Combat casualty care, timely delivery of essential medical supplies and evacuation of casualties under hostile fire historically are integral to combat medical support; but additionally can incur added risk and loss of life. With advances in medical technology, what was formerly considered secondary or even tertiary care is moving closer to the point of first response.

Editor: [Dr. Eran Schenker](#)

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