DATE 31 Mar 04

USAMMDA INFORMATION PAPER

PRODUCT: VENTILATORY ASSIST DEVICE

DESCRIPTION: The Ventilatory Assist Device (VAD) is an integrated ventilator and anesthesia machine for use by the Forward Surgical Team. Integrating these devices will eliminate the current practice of manually bagging the patient. It will be compatible with low-pressure oxygen sources such as oxygen concentrators, and ensure proper ventilation of patients during surgery.

PROGRAM RELEVANCE to the ARMY: This product supports both the core mission of the Army and the Army Campaign Plan. Of the Army's core competencies, this product supports "Forcible Entry Operations," "Sustained Land Dominance," and "Support of Civil Authorities." This product reduces the weight and size of the equipment in the field hospitals by eliminating the need for high-pressure oxygen or air to operate anesthesia machines. This product is intended to save soldiers' lives in those situations, and supports Future Operational Capabilities: MD-02-001 Clearing the Battlefield and MD-02-002 Hospitalization.

ISSUES/ACTIONS:

- Five anesthesia machines were procured and tested at 10 hospitals.
- As the result of the user test, a number of changes were made including improved labeling, operator human factors, and color coding of the hoses.
- A representative from the U.S. Army Medical Department Board (AMEDDBD) favorably reviewed the modifications to the anesthesia machine at the Ryder Trauma Center with the help of an anesthetist that used the device in Iraq.
- A cooperative agreement is being initiated to add an integral drive compressor to the ventilator. This will eliminate the bulk and most of the weight of the current external air compressor. The ventilator will still be able to be driven by an air external compressor or by high-pressure air or oxygen cylinders.
- Transition for procurement is progressing as a team effort with the U.S. Army Medical Materiel Agency (USAMMA).
- The National Maintenance Point will be developing a supportability plan.
- USAMMA is determining the reusable and consumable equipment sets to be included with the VAD.
- Environmental testing to verify extreme temperature storage suitability, high humidity operation, settling dust resistance, and drop testing will be conducted.

ADDITIONAL INFORMATION:

BPL # 428
DA PROJECT/TASK: Trauma Management – PE/PROJ 643807/836JP
MAMP RANK: 34/36
ARMY ORD: The ORD has been submitted to TRADOC.

SCHEDULE:

MS C	3QFY04

For additional information, contact: Applied Medical Systems, DSN 343-7582, Comm. 301-619-7582