



The Life-Stat™ to be used in the emergency department at the Henry Ford Hospital

Grand Rapids, MI — May 29, 2008 – Today, **Michigan Instruments, Inc. (MII)**, a Michigan based company that has been producing and supporting mechanical CPR since the 1960's, announced that its newest medical device, the *Life-Stat*™, which also recently was cleared by the FDA, will be used in the Emergency Department at the Henry Ford Hospital. The *Life-Stat*™ is the only mechanical cardiopulmonary resuscitation (CPR) device on the market with a built-in electronically controlled chest compressor and ventilator, allowing the device to perform continuous hands-free CPR as outlined by the American Heart Association (AHA).

Early this month, Henry Ford Emergency Department staff were trained by MII on the use of the *Life-Stat*™ electronic controls including a chest compression “pause” feature for prompt interventions or assessment of the patient’s condition. Current AHA CPR guidelines call for chest compressions to be given at a rate of 100 times per minute to a depth of 1.5 to 2 inches. Many emergency services require taking turns in performing CPR – usually at least every two minutes. The AHA has admitted that current CPR protocol is difficult to perform and notes that even trained rescuers weaken after only one minute. The *Life-Stat*™ mechanical CPR device is quickly set up and designed to run continuously.

“The longest reported application of a previous MII mechanical CPR device (Thumper®) with full patient recovery is 14.5 hours. MII is proud to offer the only hands-free version of AHA compliant mechanical CPR that allows rescuers to concentrate on other vital patient care tasks.” said Dr. Bruce Barkalow, MII president.

Dr. Gerard Martin, interim chair of Emergency Medicine at Henry Ford, said mechanical CPR is particularly useful for otherwise healthy patients suffering from cardiac arrest as caused by hypothermia or drug overdoses. He added that mechanical CPR circulation and oxygenation of the vital organs allows emergency departments to maintain a patient for extended times while they provide the necessary treatments.

Henry Ford is a Level 1 trauma center, meaning it is equipped to handle the most critically injured patients, and has met high standards for trauma care, education and research. It is the highest national recognition a trauma center can receive.

The *Life-Stat*™ can accommodate large patients up to 600 pounds with its open C-arm configuration that also allows direct access to the chest. This technique allows the patient to receive continuous and effective CPR while being taken from the patient location (e.g. home, apartment complex, etc.) to the ambulance - even in stairwells or elevators.



The *Life-Stat*™ is attached to a patient spine board with piston properly placed on the training manikin sternum.

The breathing hose is attached between the built-in ventilator and the manikin endotracheal tube.