



2006 Excellence in Technology Transfer Award

Heart Arrhythmia Monitoring System

**NASA Glenn Research Center
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The Heart Arrhythmia Monitoring System was initially developed to remotely assess the heart condition of astronauts during zero and partial gravity conditions. The system consists of a Palm personal digital assistant, a cell phone, and a Bluetooth transceiver. The device connects to the patient non-invasively, and is worn in a shirt pocket or attached to a belt. Electrocardiogram sensors transmit the data to a remote location. The data may be monitored in real time by medical personnel. Since more than 300,000 Americans die every year from sudden heart attacks attributed to electrical malfunctions of the heart, the Heart Arrhythmia Monitoring System promises prompt detection and treatment of problems as they arise.

The Heart Arrhythmia Monitoring System is a joint invention of employees of both MetroHealth and NASA Glenn. In order to be more responsive to the commercial market place, the parties have agreed to jointly pursue patenting. MetroHealth will take the lead in moving the invention to the marketplace. Clinical trials were completed in August 2006, and the results will be published shortly.