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Cybernet Medical's MedStar™ Device Transmits Outpatient Data in Biomonitoring Study at University of South Alabama

Home-based Monitor Remotely Captures and Transmits Glucose Readings from Diabetic Patients

Ann Arbor, MI – October 22, 2002 – Cybernet Medical, a leading developer of biometric monitoring technology and medical devices for outpatient care, today announced that its MedStar data transmission device is being used in a study now in progress at the University of South Alabama in Mobile. Conducted by the University's College of Medicine and led by Carl Taylor, the interim director of the Office of Emerging Health Technologies, the study is testing the accuracy of remote data transmission from diabetic patients. It evaluates the MedStar's ability to transmit blood glucose levels captured by a standard a glucose meter to University healthcare providers in real-time, along with other physiological data streams.

"Diabetes is an epidemic disease in the rural South," Taylor said. "We know that daily monitoring helps patients with diabetes maintain appropriate drug, diet and exercise regimens. Unfortunately, few rural patients can frequently interact with their healthcare providers. We hope to show that Cybernet's MedStar device, when implemented into a comprehensive program, can eliminate the distance barrier by giving healthcare providers useful, daily updates on a patient's glucose levels, blood pressure and weight. This facilitates proactive treatment action, resulting in fewer emergency responses and hospitalizations."

During the study, the MedStar unit acquires patient data from connected measurement devices, such as glucose meters, blood pressure cuffs, spirometers and weight scales and transfers it via standard telephone lines to a data collection server at the University of South Alabama. The study is also checking the received data against patient parameters determined by caregivers, capturing cardiac event data and evaluating improvements in the MedStar's web data display systems. All retrieved data is monitored by University researchers under the direction of principal investigator Robert Kreisberg, M.D., dean of the University's College of Medicine.

The study is part of the University's ongoing biomonitoring program, tasked with developing more advanced technologies for home care. The program already successfully uses the MedStar system to provide increased assistance to hypertensive patients in rural areas.

"Our hypertension project is a technology-enhanced partnership between the patients, their physicians and the University," Taylor explained. "The result is a healthier population, as evidenced by weight loss, controlled blood pressure and reduced trips to the hospital. Our program has demonstrated its success by providing hope, help and healing to those patients previously on the other side of the digital divide. Assuming the glucose meter interface trial is successful, we hope to use the MedStar system to partner with diabetic patients and their caregivers – to augment the primary caregivers' high touch with high tech, allowing them to work smarter and the patients to live healthier."

"Cybernet's MedStar has a key advantage over other products on the market: its ability to transmit data over standard phone lines without a PC or complex computer interface," said Cybernet Medical CEO Chuck Jacobus. "This is an important feature for older patients who may not be computer literate and who need a user-friendly device in order to more successfully manage their diseases. We've already demonstrated the MedStar's ability to improve patient outcomes in hypertension and cardiac disease. Now, we want to demonstrate our device's ability to help more closely monitor diabetic patients. Validation through studies such as the one being conducted at the University of South Alabama will help advance this agenda."

Results from the clinical trial are expected to be released by late 2002.

About the MedStar™ System

The MedStar interface device and accompanying collection server, together called the MedStar System, is designed to improve in-home patient chronic disease management. Purpose-built for home care, hospitals and disease management companies, the battery-powered and portable MedStar device, supported by Cybernet's web-based electronic patient physiological data record management systems, is the low cost solution for moving physiological data acquired in the patient's home to remotely located caregivers. Home and health care providers can deliver better care at lower cost when they can focus efforts on their more seriously ill patients.

About Cybernet Medical

Cybernet Medical is an innovative, technology-based company focused on changing the way chronic care patients are monitored and diagnosed. Through research funded by NASA, National Institutes of Health and Advanced Research Projects Agency (ARPA), Cybernet Medical has developed and patented electronic devices, networked databases, and web-based user interfaces for the collection and management of physiological data. Cybernet Medical, visit the company's web site at www.cybernetmedical.com or call 734-668-2567.

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MedStar™ meets all current, applicable FDA requirements. The current MedStar device is not intended for ECG or pacemaker monitoring, or diabetes management.