

See what other physicians are saying about Telemetry @ Home:

"Any clinician knows that this cat-like recognition and treatment of a certain life threatening brady arrhythmia would not be possible without this technology. All clinicians realize the time dependent factor and the delay that occurs with Holter monitor application, along with loop recording application, the performance of the study, the study being taken off by a technician, then being read by a technician and then waiting for a physician for a final interpretation. In my experience with routine outpatient cardiac monitoring, this arrhythmia would have been missed another 48 to 72 hours based on the reality of clinical medicine and we will never know if there would have been further difficulties in the delay of diagnosis, i.e., true syncope while perhaps behind the wheel of an automobile..."

M.F.H., M.D.
Cardiologist
Pittsburgh, PA

Detect and manage Atrial Fibrillation and difficult to diagnose arrhythmias in an outpatient setting



Introduction

Patients who require either post-operative cardiac monitoring or monitoring for suspected, non-life threatening arrhythmias can be monitored in the comfort and security of their home, without sacrificing quality of care.

The system automatically transmits a patient's irregular heart rhythm and provides immediate, accurate, and real real-time cardiac monitoring from any location with

access to a standard telephone line and electrical outlet.

Fully Automatic Monitoring

HEARTLink II™ automatically monitors and diagnoses the patient's ECG patterns. A unique and proprietary algorithm built into the system's microcomputer automatically detects 16 different arrhythmias and transmits them to the central monitoring station without patient intervention. The patient is not required to push any buttons, dial a telephone or otherwise activate the system, although the option to do so is available. Analysis is immediate and prompt and appropriate therapeutic measures can be taken by the patient's physician.

The **HEARTLink II™** system has four modes of operation:

- Real time event mode.
- Patient activated for symptomatic events.
- Patient display mode.
- Patient help request.

A unique feature of the HEARTLink II™ system is the patient display mode. In this mode technicians at the monitoring center can "log on" and analyze the patient's ECG patterns in real time. If necessary, the attending physician can be notified regarding current patient cardiac status.

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(continued)

Easy to use

HEARTLink II™ is easy to install and use. Any place that has a modular phone line connection and a standard electrical outlet can become a monitored site for the patient. The patient, caregiver or visiting nurse simply plugs the HEARTLink's Tele-Link module into a standard electrical outlet, inserts the phone cord into the patient's phone jack, and attaches the Patient Module ECG leads to the patient. Once the Central Station verifies connections, the patient is being monitored in real time, and only predetermined events are automatically transmitted. <<

Clinical Advantages

In clinical studies, the HEARTLink II™ algorithm detected events missed by other commercially available cardiac monitors. The system provides data which has been and can be used as an effective patient management tool to improve outcomes. <<

Patient Comfort

The HEARTLink II™ Patient Module weighs less than 11 ounces. The unit is comfortable enough to allow the patient to wear it for extended periods. The range of transmission (up to 500 feet) allows the patient to move freely about the home, and perform normal daily activities. <<

System Configuration



PATIENT MODULE

A small, battery-operated unit worn by the patient. The Patient Module receives ECG data from standard electrodes, digitally compresses and encodes the data and transmits it via RF to the Tele-Link processor



CENTRAL STATION

Real-time monitoring of the patient's ECG data. Located at our monitoring facility for observation and analysis by ACLS trained paramedics. 24 hours a day, every day of the year.

Radio link
(900 MHz)
from patient
module to
Tele-Link in
patient's home



TELE-LINK PROCESSOR

Continuously analyzes the data it receives from the Patient Module and automatically identifies abnormal cardiac activity. Upon event detection, it automatically dials the central station and transmits the EKG



KEY FEATURES

- Pre and post-event data capture
- Customized monitoring programs for specific cardiac events
- Comprehensive patient-specific data summary
- Remote access to processor to change patient parameters
- One hour and 24 hour trend graphs
- Real-time 24 hour Holter scan printout
- Large ECG data storage capacity