Remote ECG Monitoring

Simple
Convenient
Accurate
The Monebo system allows heart patients to be monitored from the comfort of their home, without preparation from trained medical personnel. The system provides a cost effective and patient liberating solution to cardiac electrical monitoring, making it an excellent alternative for patients in a homecare or distance care setting.

The system consists of the easy to use CardioBelt™ ECG acquisition system and ECGAnalyzer™ monitoring software. It is designed for patient ease of use, and to allow health care professionals to quickly obtain accurate information on their patient’s ECG.

Remote ECG Benefits
- Improved patient care
- Frequent information on a patient’s cardiac health
- More data for a physician to base health care decisions
- Identification of patients who may require further cardiac evaluation
- Patient testing in the convenience of their home
- Reduces the need for home nursing visits
- More efficient health care

The Monebo CardioBelt™ is worn across the chest, with no patient preparation. The patient simply puts it on, latches it with Velcro, positions the Cardiac Signal Processing Unit (CSPU) in the center of their chest, and pushes a button. The CardioBelt™ then connects wirelessly to a home appliance, leaving the patient with total mobility. Their ECG signal is automatically transmitted to the home appliance and then on to the central call center for medical evaluation. CardioBelt™ provides data from Standard Lead I, and can be worn in a resting or exercising state.

Total Patient Convenience
The electrocardiogram (ECG) is a key tool used by physicians to diagnose and monitor heart patients. In a conventional electrocardiograph (ECG), up to twelve leads are placed in precise locations on the patient. Before the leads are attached, the patient is prepared by shaving the area and applying a gel and electrode, and then attaching the electrodes by cables to the ECG machine. The necessity of preparation and properly positioned electrodes requires a trained healthcare professional to be present. For this reason, routine use of this key tool has been impractical in a remote or homecare setting.

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Software Solutions
ECGAnalyzer™ software resides in two locations and provides the patient with simple prompts and the medical professional with easy to use, yet powerful data monitoring tools. For the patient, the system automatically connects to the home appliance after the power button is depressed and the patient is notified that the test is underway.

At the data monitoring center, ECGAnalyzer displays the ECG signal on a calibrated screen and automatically makes the critical measurements. An advanced module is also available that adds the ability to automatically interpret the ECG signal for arrhythmias. ECGAnalyzer allows the health care professional to set threshold limits for the measurements to help with risk stratification.

Ease of System Integration
The Monebo system is easily integrated into the platform of a home care equipment supplier. Bluetooth is the communication link to the home appliance, and the ECGAnalyzer™ software can be easily integrated into an existing software suite, with options for basic ECG display and measurements, or a comprehensive ECG interpretive algorithm.

Monebo’s combined expertise in digital signal processing algorithms, wireless communications and regulatory affairs, provides our Partners seamless integration into their devices.