SYSTEM FOR EVALUATING AND ASSESSING ABNORMAL CARDIAC CONDUCTION

DIAGNOSTICS
Rapid, low-cost, and non-invasive detection of patient risk for cardiac arrhythmia through ECG recording assessment.

TECHNOLOGY SUMMARY
Cardiac arrhythmias and abnormal heart conduction are common, with over 600,000 sudden cardiac deaths per year in the United States. Present methods for atrial assessment and atrial fibrillation ablation require expensive, high-risk, time-intensive procedures in hospital operating rooms and experimental MRI imaging techniques. Related technology for assessing ventricular conduction abnormalities is inexpensive and low-risk, but addresses only one part of ventricular abnormality.

In order to simplify and enhance the diagnosis of abnormal heart conduction, a novel approach has been created to quantify the number and character of P waves or QRS generated by the heart. This approach assesses both P and QRS signals during a 5-15 minute, continuous, high-resolution ECG recording to determine patient risk for cardiac arrhythmia.

FEATURES AND BENEFITS
- Processes P waves and QRS signals for atrial and ventricular conduction abnormality assessment.
- Inexpensive, low risk, non-invasive assessment and screening tool.
- Uses just 5-15 minutes of continuous ECG recording for assessment.

RECENT PUBLICATIONS

INVENTOR PROFILE
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