CardiaCare. Mobile System for Arrhythmia Detection

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Abstract

Cardiovascular diseases are the main reason of peoples dying around the world. So many people needs health control in real-time mode.

CardiaCare is a mobile application for permanent monitoring of heart activity. It is designed to be used with cardiac monitor Alive Heart and Activity Monitor by Alive Technologies.

The application is under active development. Currently available:

- Bluetooth-connection with cardiac monitor.
- Viewing of ECG on the smartphones screen.
- Adding notes of the patient's activity to the ECG.
- Personal patient chart.
- Data recording to European Data Format (EDF).

Main purpose of CardiaCare application is primary diagnosis and detection of the most dangerous types of arrhythmias. It is developed as a part of software and hardware system "CardiaCare – mobile service of arrhythmia detection" that includes also server for detailed analysis and doctor's client application.

Index Terms: MHealth, ECG, Arrhythmia.

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