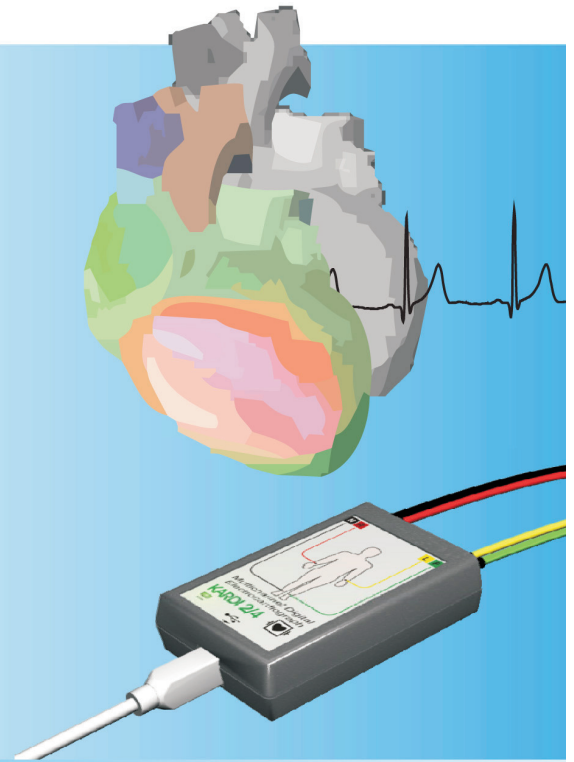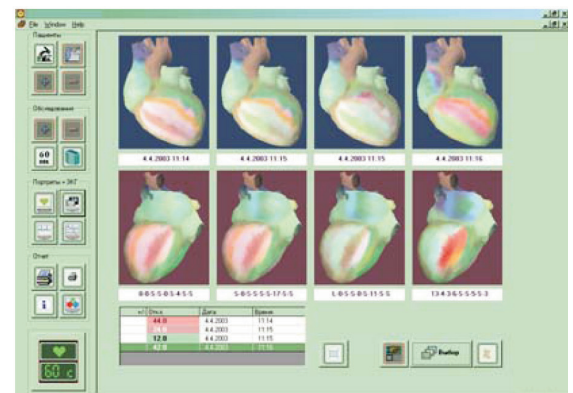# CARDIOVISOR
6 C

CARDIOVISOR 6C is computer-based system which provides physicians with a new method for earlier non-invasive diagnosis of heart pathologies. It is based on the analysis of the heart electric excitation processes and 3D visualization.

- **creation of the «portraits of heart»**
- **quantitative estimation of the heart state**
- **acquisition only standard ECG leads from hands and legs in sitting position**
- **total duration of the checkup is less than one minute**
- **patients database and dynamic comparison of the results**

- Provides better sensitivity and specificity for heart diagnosis. Depending on the pathology, this instrument sensitivity surpasses standard ECG analyzers by 7-50 times.
- Enables earlier detection of heart abnormalities.
- Utilizes new information from ECG fluctuations usually ignored as 'a noise' by regular ECG devices.
- Unique 3D visualization of the heart electrical field dynamics allows fast recognition and estimation of the heart state. System depicts a disease or stress as a holistic image instead of tiresome measurements and logical analysis of the standard QRST features of ECG waveforms.
- Evaluates the stability of the current heart state. This is extremely important since heart with major deviations can be steady (such patients often live long lives) and, on the contrary, heart with small deviations can be extremely unstable and fall in dangerously unexpected relapse.
- Improves disease trend monitoring while medical treatment, due to new visualization.
- Detects more cases of diseases and provides much better diagnosis details in comparison with automatic ECG interpreters (excluding some cases of expressed diseases, as LVH and blockades, but with better sensitivity for their early signs, "invisible" with interpreters).
- Essential enhancement of resting diagnosis allows avoiding time expensive and not always safe stress tests, especially for ischemic deviations of the heart state with very small changes of ECG or without them.
- Detects small metabolic deviations preceding the dangerous ischemic damages of myocardium.
- More effectively differentiates arrhythmias and stresses.
- Requires much less professional skills and training for better and faster results than regular ECG diagnosis, which is "state-of- the art" for general practitioner.

**RESULT -
AT 1 MINUTE!**

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New level of sensitivity, unachievable with conventional ECG devices, is illustrated by the example of myocardial infarction diagnosis with only 4 limb wires (6 standard ECG leads). Here original ECG signals have no signs of scars, typically such curves from I..aVF leads are considered as a normal. However, CARDIOVISOR 6C system after performing fluctuation analysis displayed the pathological portrait of heart condition (redness in left and right ventricles) and concluded "signs of scar's changes of low ventricular localization, complete clinical study is needed". The follow-up clinical study had confirmed the CARDIOVISOR 6C conclusion.