

MEDICALgorithmics

INNOVATIVE SOLUTIONS IN MEDICINE



Through creating technological innovations we change the face of medicine to improve the lives of patients.



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Medicalgorithmics is a global technological company pioneering novel cardiac monitoring and rehabilitation systems to enable telemedicine. We believe in the power of meaningful innovation. Through identifying unique challenges and medical needs we design products that improve the care of heart patients. Our multidisciplinary team of researchers and developers combine algorithms, software and product design to develop truly breakthrough technological solutions.

Leading the way in remote cardiac monitoring



2 000 000 hours
of heart monitoring



15 years
of medical devices
expertise



11 granted
patents



+100 000 patients
monitored yearly

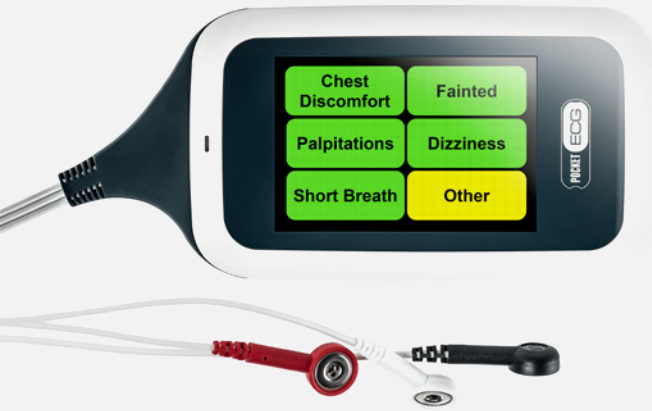


+2 000 physicians
using the technology
worldwide

Driving significant global growth

Our products

People worldwide are living longer thanks to advances in modern medicine. However, an aging population means an ever-growing need for more specialized care and technology to manage the increased complexities of health conditions, particularly related to cardiovascular diseases. Medicalgorithmics, a long-time leader in remote cardiac monitoring technology, is meeting that challenge in the global marketplace.



Arrhythmia diagnosis

The Medicalgorithmics flagship product is PocketECG, a system for heart arrhythmia diagnostics with the highest diagnostic yield when comparing to other monitoring technologies. It has been successfully used by patients worldwide for over 10 years, and has become one of the most popular systems for long-term online heart monitoring.

More: www.pocketecg.com



Cardiac rehabilitation

PocketECG CRS, a system for cardiovascular telerehabilitation which can be used in hospitals, clinics as well as at the patient's home. The system sends the complete record of a patient's ECG and heart rate in real-time during the rehabilitation session to a physician or physical therapist. Audible and visual messages help the patient control a workout's intensity so that it safely contributes to their rehabilitation.

More: www.pocketecgcrs.com



Be a part of our success!

Bringing innovations to medicine

Medicalgorithmics, a leader in non-invasive heart monitoring technology, is the creator of the PocketECG system for diagnosis of heart arrhythmia.

Its products include PocketECG for arrhythmia diagnostics, and PocketECG CRS for cardiac rehabilitation. Most recently, the company unveiled ECG TechBot, an AI-enabled software that runs the automated interpretation of an ECG signal from any electrocardiographic test.

Medicalgorithmics works collaboratively with scientific communities in the advancement of medical research and discovery. Through the cooperation with the Harvard-MIT Division of Health Sciences and Technology the company's algorithmic solutions have contributed to the development of PhysioNet, a network of databases of physiologic signals utilized by scientists and engineers to develop IT technologies for medicine.



Medicalgorithmics' products are available worldwide. Founder Marek Dziubiński, Ph.D., also serves as the company's CEO and Chief Technology Officer. Mr. Dziubiński leads the organization's research efforts, and most recently shared his research "Monitoring Duration vs Diagnostic Yield in Patients with Paroxysmal Atrial Fibrillation" at the 2018 Heart Rhythm Scientific Sessions, in Boston, Massachusetts.

More on the research's results: pocketecg.com/hrs2018

Our technology: Designed to do more

PocketECG cardiac monitoring process



Monitoring

Collecting data

During an up to 30 days monitoring session PocketECG continuously tracks the patient's activity through the built-in accelerometer. The device's interactivity and its touch screen enable the patient to directly provide information about the type of symptoms while experiencing them. The diagnosis is made in the shortest possible time, and the doctor can start treatment of the patient.



Analyzing

Processing data

During an online monitoring session, the data is analyzed by advanced algorithms and flows continuously to the monitoring center. By analysing the full disclosure, near-real-time ECG signal generated during an up-to-30-day period, the physician can decide to extend or stop the session, eliminating the reporting lag time of other available monitoring technologies.



Report

Data summary

Urgent, daily and cumulative reports are received by the physician, and an end-of-study report is provided right after the session ended. The report includes statistical data, including extremes for each arrhythmia – the fastest, slowest, or longest parts, as well as burden for each arrhythmia type. It also presents the correlation between arrhythmia, physical activity and the reported symptoms.

Data experts for your business

Highest diagnostic yield

PocketECG has the highest diagnostic yield among arrhythmia monitoring solutions.

Most sophisticated AI technology

We are the data experts - we have artificial intelligence technology (based on Deep Neural Nets) and unique data that we've used to train these systems.



Unique data

Our technology collects more data and detects more arrhythmias / measures more parameters than other solutions.

Partner for scientific research

Our technology collects more data, detects more arrhythmias and measures more parameters than other solutions.

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