briefly and objectively describes the topic of the article; should explain the heading

A light-weight (50 gram), long-term 12-lead ECG is now available for iOS-based smartphones. Up until now, the classic long-term ECG from cardiologists was a mere 1-lead ECG, could weigh up to 200 grams and was extremely cumbersome for patients.

Who/What/When/Where/Why

Personal MedSystems GmbH in Frankfurt am Main has developed the first long-term ECG for mobile end-devices (iOS devices) with 12 leads using only four electrodes. Sale of the CardioSecur long-term ECG will launch throughout Europe in the Spring of 2017. When provided to the patient, a clinical 24-hour ECG can be recorded with the mobile end-device, and infrequent events can be reliably captured. Using a multi-lead approach, ischemic complications can be detected, and rhythm disturbances can be not only identified, but also localized. The comprehensive ECG data make it possible for physicians to establish a rapid and precise diagnosis, therefore providing the patient with effective therapy.

Detailed information; Background, Explanation, Perspective, Opinions, Quotes from the Managing Directors

Using only four electrodes, CardioSecur offers a complete, 12-lead, long-term clinical ECG. The advantages compared to a conventional system include its ease of use, light weight (50 grams) and its compatibility with mobile end-devices. When recording a 12-lead long-term ECG with a conventional system, the patient must attach 10 electrodes to the body. The light weight of CardioSecur is the result of only four electrodes and the small ECG cable, which is then connected to one’s own smartphone or tablet. The app leads the user through its use in only a few simple steps. Patients are thereby able to record a 24-hour ECG anytime and anywhere, without limitations, and without the need to carry an additional device.

The simplicity of the application on one’s own smartphone offers a familiar method of use. This causes the willingness of the patient to perform a 24-hour ECG to rise, therefore increasing the chances of diagnosis and recovery as well.

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