Revolutionizing the approach to cardiorespiratory fitness

Presentation for IUCE Ledernetværk

December 13, 2023

VentriJect

The solution: Seismofit®

An easy-to-use, scalable and precise solution to estimate VO_2 max

- Patient will be resting during test (no physical exertion)
- Takes less than 3 minutes
- No calibration
- Very limited education required

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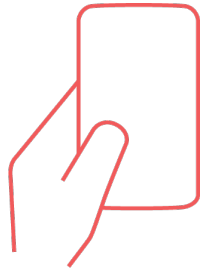
The patient goes to health check

The patient lies down with Seismofit® for 40 seconds

Seismofit® data uploads to the cloud

Data gets processed by Seismofit® algorithm

Result shows on smartphone



All done in less than 3 minutes

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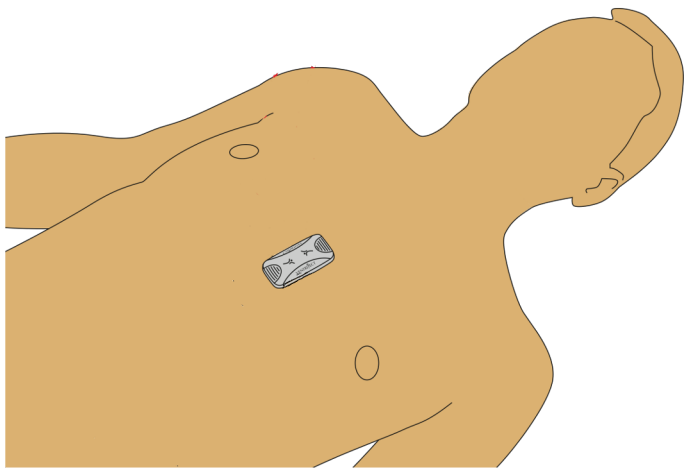
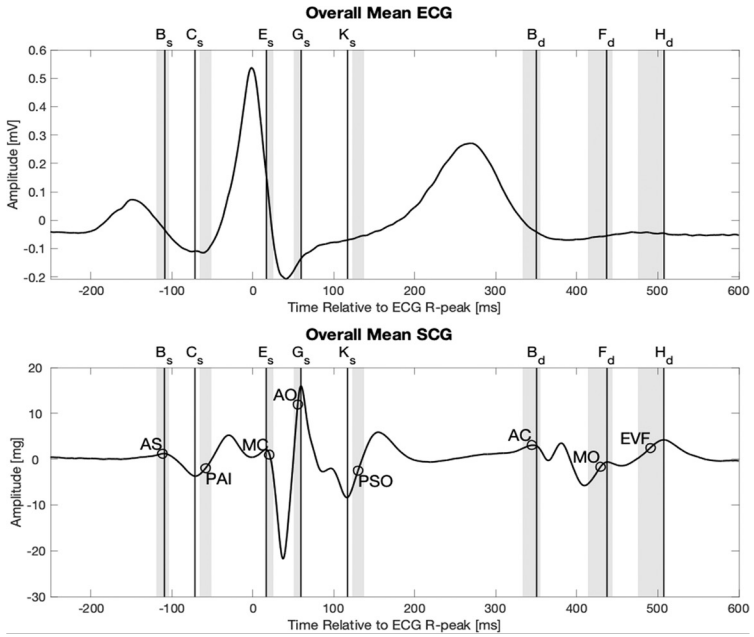
SeismoCardioGraphy (SCG)

SCG is accelerometer recordings of chest wall vibrations caused by the beating heart



SCG is a measure of cardiac function



The VentriJect algorithm utilizes SCG to create an estimation of the patient's VO_2 max – in less than 3 minutes

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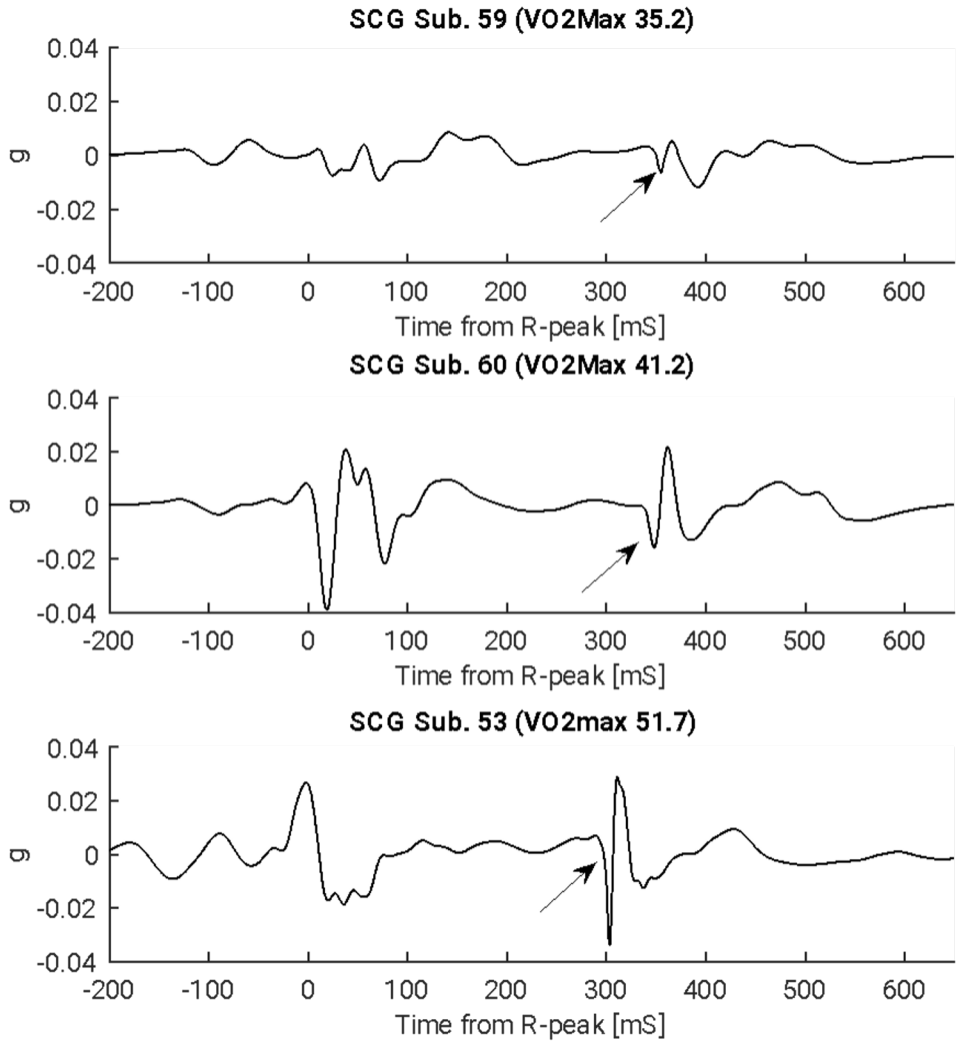

Determining VO_2max

VentriJect use AI and an advanced algorithm for determining VO_2max

VentriJect's algorithm for prediction of VO_2max is based on:

Basic physical attributes

- Gender
- Height
- Age
- Weight

SCG measurements

- Timings
- Morphology
- Amplitudes
- Variability
- Frequencies

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www.ventriject.com