



ATV's Technology Day 2017

How to start-up a medtech company

DGI-byen, Copenhagen - 2017-11-09

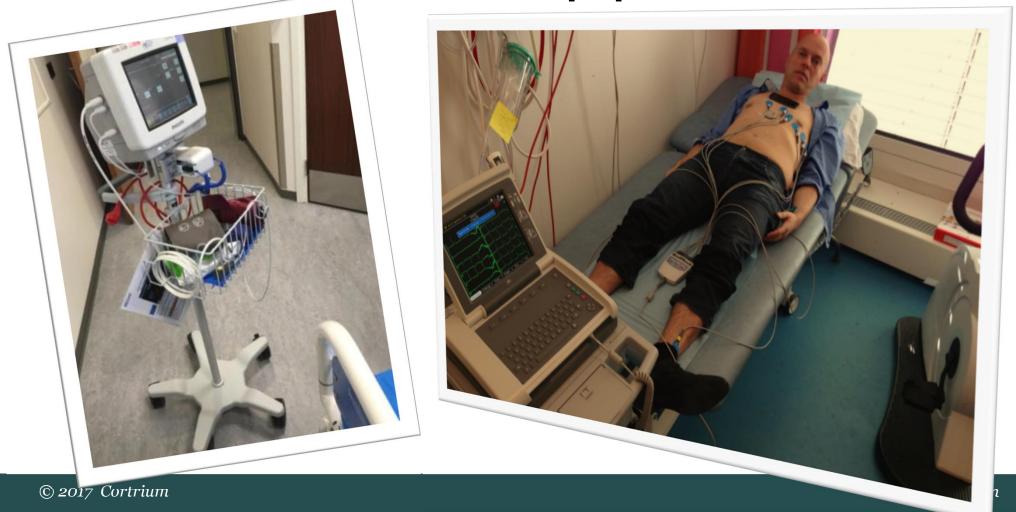
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Problem - Cumbersome equipment



Cortrium – Our journey



Network

Health 2.0 🖵

CPH chapter manager







Accelerators







Pitch Winner















Co-funded by EUREKA member countries and the European Union Horizon 2020 Framework Programme



Pfizer - Cortrium Collaboration

Official from 18, Oct. 2017







History















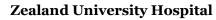


















Single unit - The big five plus one



C3 device - Clinical testing



Cortrium C5 device



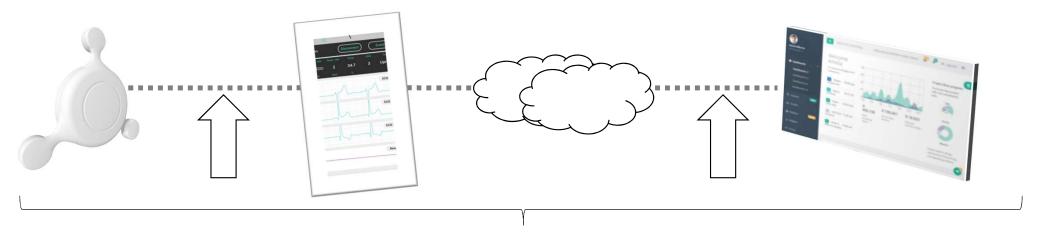
4. Accelerometer

5. Pulse oximetry

6. Blood pressure



Generic end-to-end diagnostic framework



All modules developed in-house

Solid and stable "generic" end-to-end diagnostic framework (device, tablet, cloud, frontend)

Wireless transmission of medical grade vital sign data (electrocardiogram, respiratory rate, temperature, accelerometer)

Modular and customizable - Multiple options for connecting the system





The Cortrium C3 device is developed to meet the demand for a modern, reliable, and open medical grade vital sign monitoring system. The device is based on state-of-the-art technologies while remaining inexpensive as it is produced from high quality off-the-shelf components.

Specs:

- Weight ~24 grams.
- Dimensions (L x H): ~50 mm x ~9 mm.
- Battery: 3.7V rechargeable Li-ion battery. Minimum 24 hours when recording to device.
- Recharged using standard micro USB port.
 Internal memory: 4 GB microSD card for > 17 days of continuous recording.
 Connectivity: Bluetooth 4.0 Low Energy (BLE) and live streaming to cloud service. Open RESTful API available, IOS SDK available,
- Placement: Worn on the chest using inexpensive off-the-shelf standard ECG electrodes.

Metrics:

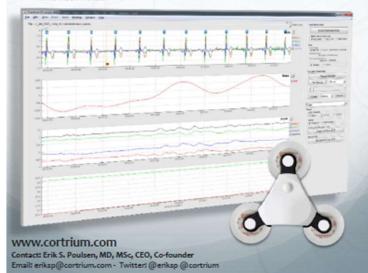




The Cortrium C3 graphical user interface for MATLAB enables the user to quickly select and load C3 recordings for visual inspection of the data.

Features:

- Displays curves of ECG, respiration, accelerometer, and temperature data.
- Enables display of event markers recorded in Cortrium iOS app.
- Options for FFT plot of ECG, and histograms of accelerometer data.
- Interfaces with ECGkit (http://marianux.github.io/ecg-kit/) for QRS-detection and heartbeat classification.
- Export of ECG to MIT and CSV file formats, and export of interbeat intervals (IBI).
- And much more...



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