





Redeye Artificial Intelligence Seminar 2022

Helen Ljungdahl Round CEO Samuel Schmidt R&D

March 16, 2022







Acarix Leading the Paradigm Shift



Al-powered assessment of Coronary Artery Disease (CAD)

Only 1 out of 10

with stable chest pain have CAD

Rule-out of CAD in 10 min with > 96% confidence

The CADScor® System enables non-invasive rule-out of patients

More than 8,000 patients in clinical trials

With unique CE-approved and FDA De Novo cleared AI technology

- >15 years of research and development
- 45 patents

Razor / Razor Blade business model

Attractive business model with installed CADScor®System and innovative single-use patches for each patient assessment





Demonstrating Clinical Value in Less than 10 Minutes with CAD Rule-out



Intended use (FDA) ¹

The intended use of CADScor®System is to record heart sounds, i.e., murmurs and vibration for calculation of a patient specific score, the CADscore, indicating the risk of coronary stenosis, as an aid in cardiac analysis and diagnosis.

ECG Stress
Test via treadmill²

CCTA -Stress
Echo MPI Nuclear
Imaging

Invasive Coronary Angiography

Invasive Treatment (PCI etc)

Radiation equivalent of 500-1,000x ordinary x-ray¹⁴.



- 1. US user manual v.12.5, prevalence 10,7%, algorithm version US3.2
- 2. ESC 2019 guideline does not recommend if other diagnostic tools are available



The SCIENCE behind CADScor®System and the CAD-score

REF: 125 REC-ID: 3091 🕢 IIII 20 REC.

CAD-score: 14 Low risk

Record ID: 3091

Sensor: S15-07-1223

Sensor can be removed

DONE

REF: 125 REC-ID: 3091 🕢 IIII 20 REC.

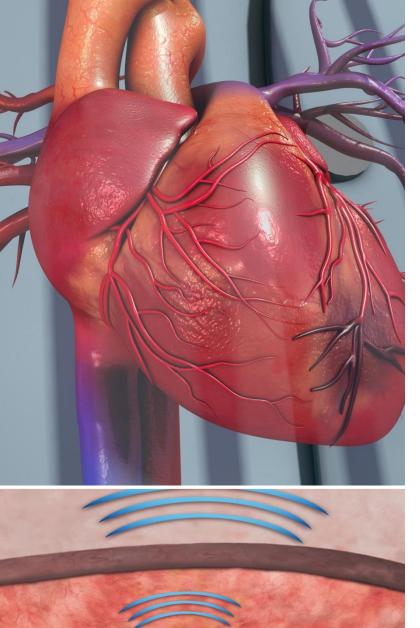
CAD-score: **30** Elevated risk

Record ID: 3091

Sensor: S15-07-1223

Sensor can be removed

DONE





The Idea Behind the CAD-Score

Coronary artery disease (CAD) causes week alterations in the heart sounds

- Narrowing's caused by plaque build up will produce turbulent blood flow, which makes a weak noise
- The relaxation of the heart is altered by CAD, which changes the heart sounds

These sound are not audible by the human ear

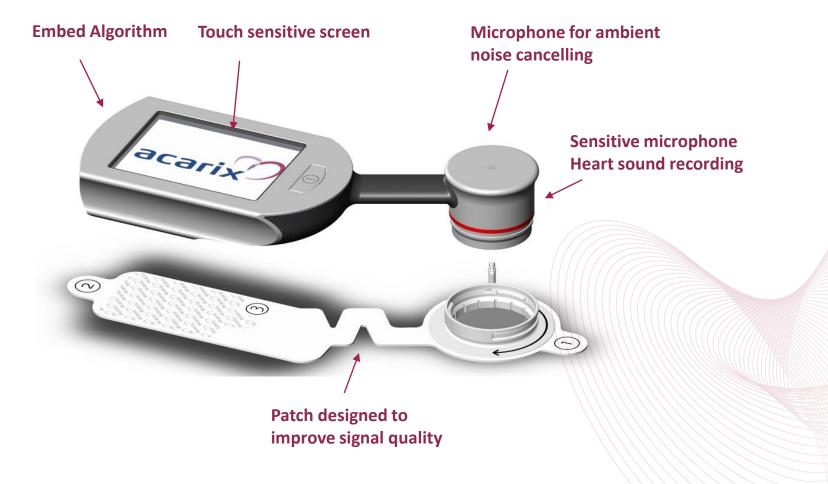
But AI can learn to detect these





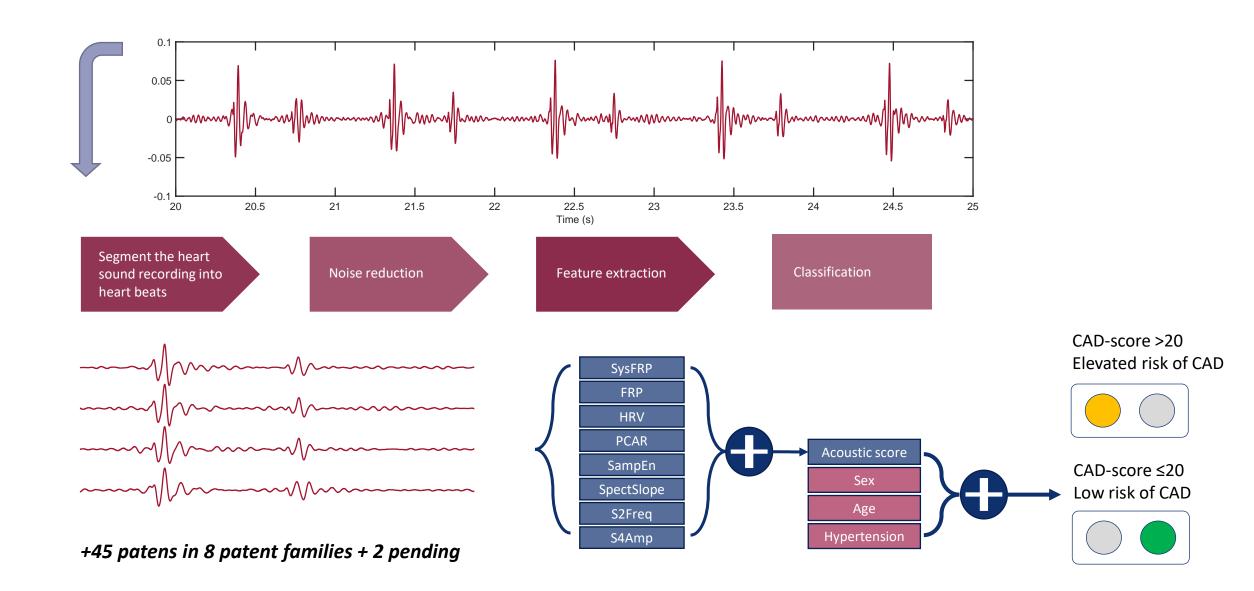
The NOVEL CADScor®System

Ultra sensitive and intelligent AI-powered diagnostic aid, rooted in strong Danish audio industry and academia



Al Algorithm for Acoustic Detection of CAD







The need for Rapid Rule-out



Low diagnostic yield of current diagnostic methods

Current noninvasive testing includes:

- Cardiac CT
- Stress ECG
- SPECT

Current noninvasive testing is

- Costly
- Depends on specialized equipment located at hospitals

90-94%

patients undergoing noninvasive testing do not suffer from CAD 1,2

¹ Therming C et al (2018) Low diagnostic yield of non-invasive testing in patients with suspected coronary artery disease: results from a large unselected hospital-based sample. Eur Heart J - Qual Care Clin Outcomes 4:301–308

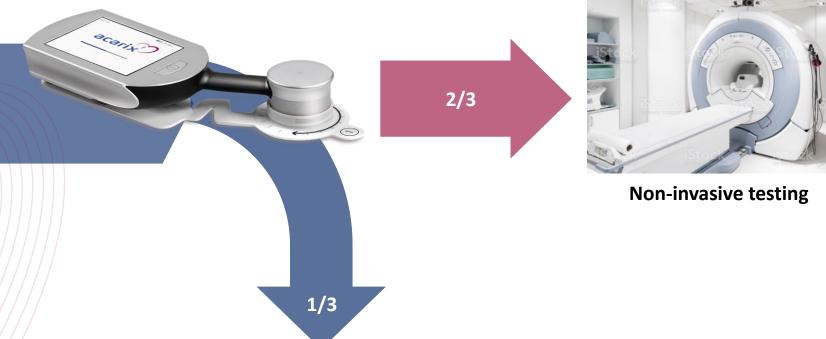
² Winther, Simon, et al. "Diagnostic performance of an acoustic-based system for coronary artery disease risk stratification." Heart (2017): heartjnl-2017





Rule-out Capacity of CADScor®System

The point-of-care CADScor®System can safely rule out more than one third of patients referred for non-invasive testing with at least 96% certainty



No further assessment for CAD

A Clinical Powerhouse and Continued Clinical Development

Patients included:

Reported studies: 2,790
Ongoing studies: ~3,800



ADOPT CAD (2012-13)

BIO-CAC (2014-2015)

DAN-NICAD (2014-16)

N = 228 CAD Prevalence 28%*

Gold standard ICA confirmed CAD

N = 661 Technical Data Sub-study – DanRisk study

Gold standard ICA confirmed CAD

N = 1,675 CAD Prevalence 10.4%

Gold standard ICA confirmed CAD, including FFR

Clinical trials used for external validation

VALIDATE (2016-17)

N= 226 CAD Prevalence 39%

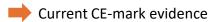
Gold standard ICA confirmed CAD

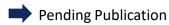
DAN-NICAD II (2018-20)

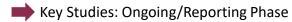
> AKUSTIK (2019-20)

FILTER-SCAD (2019-ongoing)

New data is used for further algorithm development











Why engage and invest in Acarix?

1. Solid R&D and patented technology, published clinical data and regulatory approvals

Strong platform foundation with patented technology. Clinical data completed and published. Now ready to scale and drive impact for Acarix, health care providers and patients

2. Strengthened EU position

Growing installed base and increased utilization of patches; ongoing work with G-BA and NICE

3. US market opportunity

Timing is ideal: FDA De Novo, CPT Code and new Guidelines Significant unmet need with matching business model

Strong experienced team to make it happen!





Thank you!