GE Healthcare

# 15-Lead Stress Electrocardiography

## Adding a right approach to improved coronary artery disease detection



### The Clinical Challenge

Heart disease remains a leading cause of death throughout the world. The ability to identify patients with coronary artery disease is challenging. This challenge is even greater for patients with right-sided coronary disease. Exercise electro-cardiography is a common diagnostic test used to identify these patients. However, it is limited. In fact, sensitivity for single vessel disease can be as low as 52%.[1]

### The Clinical Solution

By using a 15-Lead Stress Electrocardiograph, the sensitivity in identifying 1 or 2 vessel disease is dramatically increased (35% and 25% respectively).[1] These additional leads, which can be measured using GE Healthcare's CASE®, CardioSoft™, and MAC® 5500 devices, can provide clear detection of the ST-segment changes missing in standard lead ECG's. This solution is simple to add, is substantially lower in risk than other invasive tests, and is very cost effective.

### Improved Detection of Coronary Artery Disease by Exercise testing with Right Precordial Leads

Figure 1. Sensitivity of Standard Exercise testing with the 12-Lead Electrocardiogram, Exercise Testing with the addition of 3 Right Precordial Leads, and Thallium-201 Scintigraphy for the detection of Single-, Two-, and Three-Vessel Coronary Artery Disease and of Any Coronary Artery Disease.
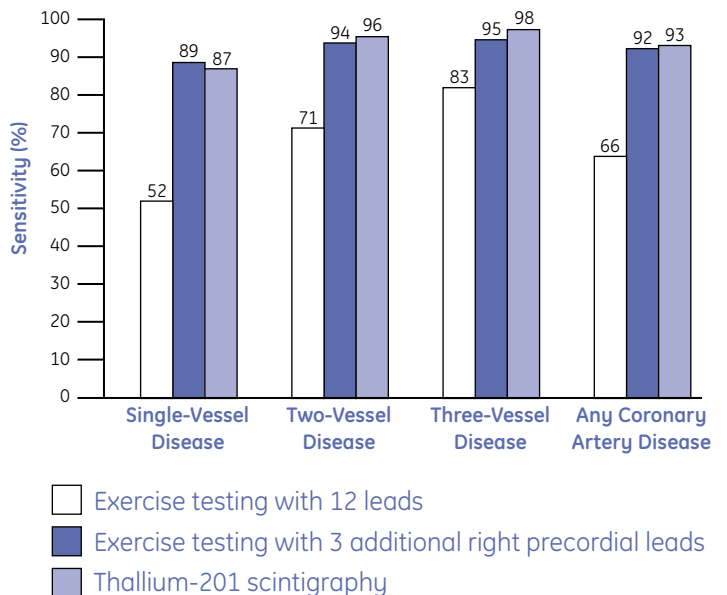
# Advantages of GE's 15-Lead Analysis with KISS Application

- World's first 15-lead suction system

- Complete configurability: Basic Lead set offering is 10-lead KISS with field upgradeable solution to Frank, NEHB, and A1-A4

- Record and measurement of 15-lead ECGs using CASE and CardioSoft ECG systems

- Outstanding signal transfer for all operating modes

- Low noise operation

- Vacuum electrodes reliably adhere throughout the entire procedure

**Technology you've come to depend upon, now providing even greater sensitivity to cardiovascular disease with enhanced application and ergonomics.**

**For more information please contact your GE Healthcare representative.**

[1]. *Michaelides AP, Psomadaki ZD, Dilaveris PE, Richter DJ, Andrikopoulos GK, Aggeli KD, Stefanadis CI, Toutouzas PK. Improved detection of coronary artery disease by exercise electro-cardiography with the use of right precordial leads. N Engl J Med 1999;340:340-5.*

GE Medical Systems Information Technologies GmbH
Munzinger Straße 3-5
79111 Freiburg, Germany
Tel. +49 761 4543 0 • Fax +49 761 4543 233

www.gehealthcare.com

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