

WHY PERFORM EXERCISE TREADMILL TESTING?

Patient volunteers with coronary artery blockage may show normal ECGs at rest. However, when the heart is exposed to exercise, significant disease symptoms can be revealed. Exercise forces healthy coronary arteries to dilate and supply more blood to the heart muscle while



narrowed arteries, in turn, supply a reduced flow to the portion of the heart that they serve. Lack of blood flow causes the muscle "to starve" during exercise which may produce symptoms such as chest discomfort or shortness of breath and show characteristic abnormalities on the ECG recording. In particular, the ECG complex most representative of Coronary Artery Disease (CAD) is ST Segment depression, which is an indicator of low blood flow to the heart muscle.

GLOBAL CAPABILITIES

- Participating in trials in over 95 countries, 14,000 clinical sites
- Offices in North America, Europe & Asia
- Multilingual staff fluent in 26 languages to facilitate communication with sites
- Phase I through Phase IV studies
- Single Project Manager assigned per study
- Web-based Sponsor access to data and reports

BIOMEDICAL SYSTEMS' PROVEN APPROACH

Our proprietary Biomedical ECG Acquisition Management System (BEAMS) allows sites to easily hookup to several different models of treadmills/ bikes to acquire and analyze the ETT in progress. Pre programmed Exercise Protocols (Bruce, Balke, Sponsor Specific, etc), ensure site compliance to protocol needs. System prompts for blood pressure check and post-test summary reports are additional safeguards that sites perform all required procedures during the visit. Biomedical Systems' centralized approach offers Sponsors several advantages.

- Each Sponsor-selected site receives identical equipment and software that includes: laptop computer, acquisition module, printer, anti-theft lock and electrodes
- The proprietary BEAMS software is compatible with more than 15 different treadmills
- Training for site personnel is conducted on-site, at investigator meeting, by teleconference or via web training
- Sites are required to send an ETT for Validation and Certification upon receipt of BMS equipment
- Pre-programmed Exercise Protocols are included in the BEAMS software
- 24/7 technical support is provided throughout the trial



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