

# MCG

Magnetocardiography (MCG) is the measurement of the magnetic fields produced by the electrical activity of the heart, using extremely sensitive Superconducting Quantum Interference Device (SQUID) sensors.

## MCG – the new barometer of cardiac wellness

## MCG – a new triage tool in the Emergency Department

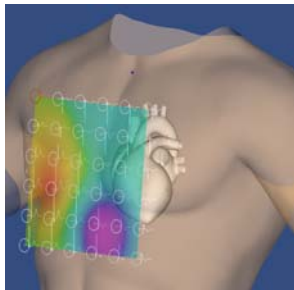
### MCG vs. ECG

- **Magnetic** information is the most accurate way to non-invasively measure cardiac electric current flows.
- Signals from electric current flow that cancel each other do not produce signals on ECG, but they do on MCG.
- MCG results are not sensitive to electrode placements or distorted by skin conditions.
- MCG can be analyzed for cardiac ischemia in the presence of bundle branch block.

### MCG vs. CT

- MCG provides visualization of cardiac electric function.
- MCG does not expose patient to X-ray radiation.
- MCG avoids the biohazards associated with nuclear imaging.

A 3-D display area showing magnetic field distribution, torso model, and heart model



### MCG – for Patients' Comfort

An MCG exam is **radiation-free**, takes ten minutes, requires **no injections**, no breath holds, and **no patient exercise**.

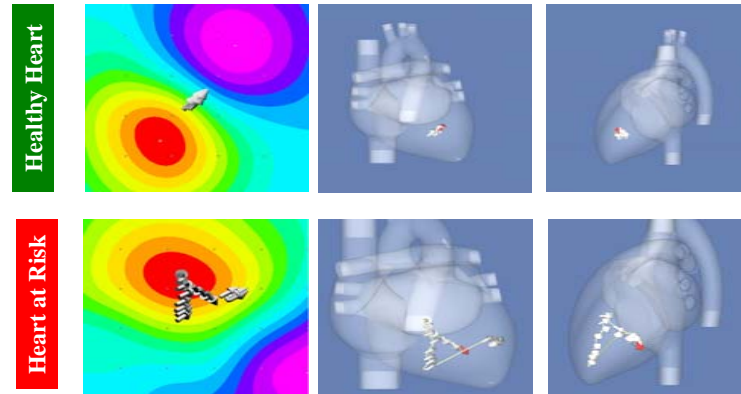
Because MCG signals are not attenuated by breast tissue, MCG is the scan of choice for women's heart health.

### MCG – for Physicians' Confidence

Results of an MCG analysis (below) track the path of ventricular re-polarization during the cardiac cycle.

**Clustered** arrows indicate a stable healthy heart, **dispersed** arrows an unhealthy heart.

Visualization of Heart Function



For patients presenting with chest pain and suspicion of Acute Coronary Syndrome:

- MCG will be able to identify patients at **high risk**.
- MCG will be able to identify patients at low risk.
- MCG will be able to identify patients at intermediate risk, and provide a measure quantitatively and qualitatively.
- MCG as "insurance" against the inadvertent discharge of a patient with active ischemia.



A fully dressed patient for an MCG screening test

## MCG – new information for better decisions and higher quality patient care

MCG has the potential to become the tool of choice for:

- Locating arrhythmic foci
- Monitoring the efficacy of drug treatment
- Confirming the efficacy of PCI, PTCA, and CABG
- Monitoring the progress of cardiac rehabilitation
- Eliminating biopsies after heart transplantation
- Conducting periodic screening tests

CardioMag Imaging (CMI) was incorporated in 1999 in the State of Delaware. CMI designs, manufactures, and markets cardiac diagnostic devices called MagnetoCardioGraphs (MCG), which record the electrical activity of the heart using highly sensitive superconducting sensors. Our unique MCG heart function evaluation system (CMI-2409) can be used in practical clinical settings for the safe, noninvasive, and early detection of electrical conduction abnormalities in human hearts. Our goal is to revolutionize healthcare by detecting, at the earliest stages, the onset of coronary artery disease.

Regulatory Approvals for the CMI-2409 MCG



**FDA - Food and Drug Administration**  
Approval # K033488



**CE Mark - Conformité Européene**  
Certification # CE 0843



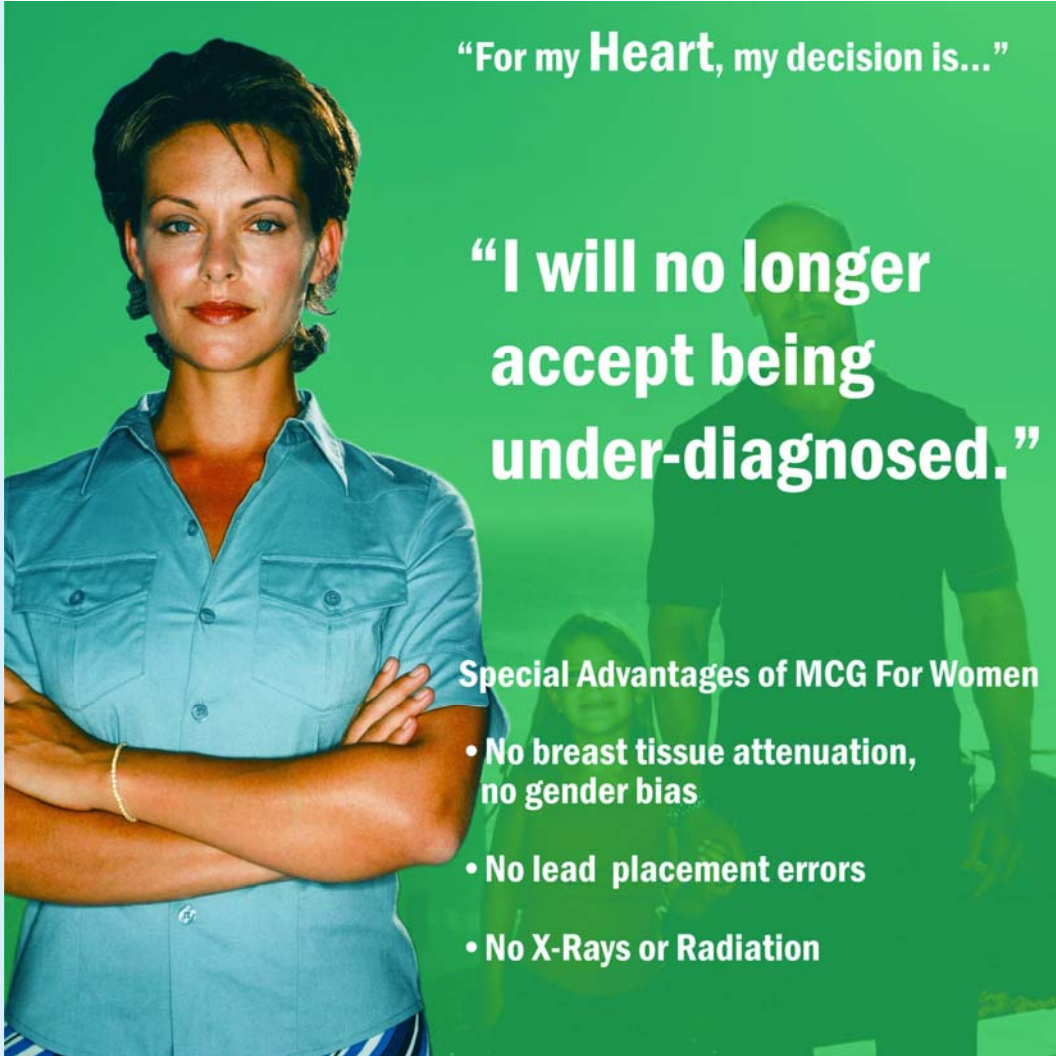
**UL - Underwriter's Laboratory**  
Certification # 51LB



**ISO 9000 Certified**  
CardioMag Imaging, Inc. is certified to ISO 9001:2000 quality control standards.

**ISO 13485 Certified**  
CardioMag Imaging, Inc. is certified to ISO 13485:2003 quality control standards.

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**“For my Heart, my decision is...”**

**“I will no longer accept being under-diagnosed.”**

**Special Advantages of MCG For Women**

- No breast tissue attenuation, no gender bias
- No lead placement errors
- No X-Rays or Radiation