

## Medical Imaging – Cardiovascular

Transforming images into information.  
Turning information into knowledge.  
Mapping Life Pixel by Pixel™.

### Cardiovascular Imaging Specialists

Cardiovascular disease is the leading cause of mortality in the Western world. As a leading global medical imaging and endpoint core laboratory, ICON helps sponsors assess the effect of therapies and devices by independent and rigorous assessment of clinical and imaging endpoints.

ICON Medical Imaging professionals have experience in a broad range cardiovascular conditions: Acute Myocardial Infarction, Carotid Vascular Disease, Cerebrovascular Disease, Congestive Heart Failure, Drug-induced cardiotoxicity, Great Vessel Aneurysm, Myocardial ischemia, and Peripheral Vascular Disease.

ICON has significant experience in all cardiovascular imaging modalities including Echo, Angiography, SPECT, CT, MRI, Ultrasound and ECGs. ICON Medical Imaging provides personal, one-on-one interaction and consulting on the critical uses of imaging in your trials, including the medical, scientific and regulatory aspects. Our people are imaging experts, with deep clinical and scientific roots.

## MIRA™

ICON Medical Imaging provides image data, ECG and project management in a single system called MIRA™. MIRA™ provides the ability to analyse all data in a fully electronic, 21 CFR Part 11 compliant environment with integrated eCRF capture. The combination of regulatory experience and technological innovation also facilitates fast blinded read setup. MIRA™ was designed to facilitate sponsor time-line management by allowing up-to-the-minute access of dataflow and image reads.

MIRA™ - ECHO, enables cardiac ECHO images to be viewed, measured and interpreted in clinical studies MIRA™.

ECHO is a DICOM image viewer and analysis software module that is integrated with an eCRF. It displays links from the traced images back to the measured moving heart image, and also to the numerical measurements captured in the eCRF. Functionality embedded within the eCRF allows an Over-reader to adjust preliminary measurements, while maintaining compliance with 21 CFR Part 11 regulations. MIRA™-ECHO also enables measurement and assessment of the full complement of ECHO parameters.

MIRA™-ECHO satisfies an important need in clinical studies that involve ECHO. Enabling adjustment and fine-tuning of traced cardiac measurements stored in the eCRF against a moving source image, while maintaining regulatory compliance and an audit trail.

## Experienced Professionals

- In-house Nuclear Medicine Physician and Radiologist
- Global network of Cardiac Image Blinded Readers for both remote and monitored reads in all modalities
- Imaging Specialists with experience in CT, MR, Vascular Ultrasound, Angiography, SPECT, and Echo
- Nuclear/Echo Cardiologists
- Biomedical Engineers
- Biostatistician
- Data Management
- Medical Writers

ICON Medical Imaging has significant experience in all major cardiovascular indications and imaging modalities.

Cardiovascular Imaging Experience	Imaging Modality Experience
Perfusion Imaging	SPECT, PET, MR, Echo
Segmental Analysis	DSA, MR, SPECT, Echo
Heart Failure	Echo, MUGA, CT, MR
Wall Motion Analysis	SPECT, MUGA, Echo, MR, LV-GRAM
Peripheral Arterial Disease	MR, CT, X-Ray, Angio
Coronary Disease	Angio, QCA, CTA
Venous Thromboembolism	Venography, Compression Ultrasound, Helical CT
Carotid IMT Analysis	Ultrasound
Obesity/Diabetes/ChemoTx/Amyloid	Echo/MUGA for LVEF Toxicity

### For more information, please contact:

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