

Heart Failure Trial Echocardiography Core Lab

75 sites

Transthoracic echocardiography

LVEF, GLS and LV volumes

Challenge

In heart failure trials, ejection fraction and myocardial strain measurements frequently determine both eligibility and efficacy, yet echocardiography is among the most operator-dependent of imaging modalities. Across 75 sites, differences in image acquisition quality and measurement technique placed the LVEF, global longitudinal strain, and ventricular volume endpoints at risk. The sponsor required central assessment capable of delivering consistent, reproducible quantification from imaging acquired under real-world site conditions.

Our Solution

Intrinsic Imaging trained sonographers at every site on a standardized acquisition protocol, establishing a uniform foundation of image quality before central review began. Blinded central assessment of LVEF, global longitudinal strain, and ventricular volumes was then performed under a detailed measurement charter, with quality feedback returned to sites to sustain acquisition standards throughout enrollment and follow-up. This combination of upstream training and rigorous central measurement delivered endpoint data of consistent quality across the entire program.

Results

- Central assessment of 4100+ echocardiographic studies
- LVEF reader variability below 5%
- Endpoint data delivered on time for the primary analysis

Read the full study online: <https://www.intrinsicimaging.com/case-studies/cardiology-heart-failure>

About Intrinsic Imaging, LLC

Intrinsic Imaging is a full-service medical imaging core lab providing comprehensive services in support of Phase I-IV clinical trials and Class I, II, III medical device trials. Intrinsic Imaging is also a world leader in conducting Artificial Intelligence studies. With its team of more than 750 board-certified and fellowship-trained physicians, Intrinsic Imaging's team has sub-specialization in all therapeutic areas, including Cardiovascular, Central Nervous System, Gastroenterology, Musculoskeletal, Oncology and Ophthalmology. Certified by the British Standards Institution (BSI), Intrinsic Imaging is the only company in the world to hold five ISO certifications specifically for providing imaging core lab services on clinical trials. For more information, please visit www.IntrinsicImaging.com.

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