

CMR Viability in a Heart Failure Trial

60 sites in 12 countries

Cardiac MRI with late gadolinium enhancement

Central viability adjudication

Challenge

A heart failure outcomes trial required centralized assessment of myocardial viability by cardiac MRI to determine subject eligibility, since the investigational therapy's mechanism depended on the presence of viable myocardium. Late gadolinium enhancement imaging is technically demanding, and site-performed interpretations varied enough to risk enrolling subjects who could not benefit—or excluding those who could. Eligibility determinations also had to be returned quickly, because randomization windows were narrow.

Our Solution

Intrinsic Imaging standardized late gadolinium enhancement acquisition across all 60 sites through protocol-specific training and prospective quality control, ensuring that inversion times and imaging planes met the charter's requirements before studies reached readers. Fellowship-trained cardiac MRI specialists performed centralized viability assessment using a structured segmental scoring system, with dual independent reads and adjudication for discordant cases. Eligibility results were returned to sites within 48 hours through automated notification.

Results

- Eligibility reads returned within 48 hours
- Inter-reader agreement of 0.94 on viability scoring
- Enrollment completed ahead of projections

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

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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