

Hepatocellular Carcinoma Trial Using mRECIST

50 sites in 12 countries

Multiphase CT, MRI

mRECIST and LI-RADS

Challenge

Assessment of hepatocellular carcinoma under mRECIST hinges on measuring viable, enhancing tumor rather than overall lesion size—making the timing of the arterial phase absolutely critical. Across 50 sites in 12 countries, variation in multiphase acquisition timing had compromised the reliability of viable tumor measurements, since a poorly timed arterial phase can render enhancement unassessable. The trial's response-based endpoints required that every examination capture the contrast phases necessary for valid mRECIST assessment.

Our Solution

Intrinsic Imaging standardized multiphase acquisition protocols across all participating sites, with phase timing verified on every submission at the point of receipt. Non-conformant studies were flagged immediately, allowing sites to correct acquisition technique before further patients were affected. Only then did examinations proceed to central review by abdominal radiologists, who applied mRECIST and LI-RADS criteria to imaging of consistent, verified quality.

Results

- Evaluable scan rate above 97%
- Reliable viable tumor measurements
- Central review supported the regulatory filing

Read the full study online: <https://www.intrinsicimaging.com/case-studies/oncology-hcc>

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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