

Rheumatoid Arthritis Modified Sharp Scoring

60 sites

Hand and foot radiographs

mTSS erosion and JSN

Challenge

Structural progression in rheumatoid arthritis is measured in small increments of erosion and joint space narrowing, and detecting change over 52 weeks demands a scoring methodology of exceptional repeatability. Modified total Sharp scoring is labor-intensive and interpretive, and without rigorous central control, reader drift and inter-reader variability can easily exceed the magnitude of the treatment effect the trial seeks to demonstrate. The sponsor needed central assessment disciplined enough to report the smallest detectable change with confidence.

Our Solution

Intrinsic Imaging assigned two blinded musculoskeletal radiologists to independently score paired hand and foot radiographs, with timepoint order randomized to prevent chronological bias from influencing scoring. A detailed scoring charter governed every assessment, and formal adjudication resolved any large discordance between readers. Reader performance was monitored throughout the study to confirm that scoring precision remained stable across the full 52-week follow-up.

Results

- Smallest detectable change reported per protocol
- Consistent scoring across readers
- Central imaging data supported the structural endpoint

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

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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