

Glioblastoma Trial With RANO Criteria

30 sites

Brain MRI with perfusion

RANO and mRANO

Challenge

Following chemoradiation, glioblastoma patients frequently exhibit treatment-related imaging changes that mimic tumor progression. Distinguishing pseudoprogression from true progression is among the most difficult judgments in neuro-oncology imaging, and premature or inconsistent progression determinations can distort progression-free survival analyses and lead to inappropriate treatment changes. The trial required central application of RANO and modified RANO criteria rigorous enough to manage this ambiguity uniformly across all 30 sites.

Our Solution

Intrinsic Imaging's neuroradiologists applied RANO criteria with mandatory confirmatory imaging before any progression event was finalized, ensuring that transient treatment-related changes were not misclassified as progression. Perfusion assessments were incorporated into the interpretation of suspected pseudoprogression, providing an additional physiological dimension to complement conventional morphological review. A standardized confirmation workflow governed every ambiguous case, producing a consistent and fully documented decision trail.

Results

- Reduced incidence of premature progression determinations
- Consistent confirmation workflow across sites
- Inspection-ready read audit trail

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

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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