



**IMAGING ENDPOINTS**  
CONNECTING IMAGING TO THE CURE

## NEUROLOGY IMAGING

### THINKING AHEAD FOR A SUCCESSFUL TRIAL

Neuroradiology offers many opportunities for both anatomic and functional assessment throughout a spectrum of neurological diseases. We emphasize successful endpoints by planning intelligently, right from the start. We consult with your imaging team early to identify and prevent some of the challenges that could occur during the course of your study. Since neuroimaging provides such a wide range of techniques, finely detailed standardization beforehand is critical to ensuring consistent and reliable data acquisition at your clinical trial imaging sites.

While standardizing acquisition parameters is important, it does not in itself guarantee success in your clinical trials. We must also plan for consistent and closely controlled post-acquisition data processing and analysis. In fact, your trial endpoints depend on it. Additionally, we work with you to determine the best modality and imaging mix, so you can maximize your potential for good data. Our experts are engaged throughout the process, from protocol design to central data analysis, to ensure quality control, timely results, and an accelerated clinical trial.

### OUR EXPERTISE

We are staffed with board-certified and specialty-trained neuroradiologists who are available to assist you with your neurological imaging needs. Additionally, we partner with a panel of clinical neurologists who are heavily engaged in research and are available to help with consultations and other services as needed. Because of the technical challenges of some neurological imaging techniques, we also work with medical physicists as necessary to ensure that your trial is a success.

#### **Areas of imaging specialty include the following:**

- Alzheimer's
- Alzheimer's/Dementia
- Epilepsy
- Parkinson's disease
- Traumatic brain injury
- Spinal interventions (kyphoplasty, vertebroplasty)
- Spinal fusion surgeries
- Multiple sclerosis
- Neuro-Oncology (brain tumors, metastatic disease)
- Head and neck malignancies
- Carotid and cerebral vascular disease
- Vascular malformations



## NEUROLOGY IMAGING (Cont.)

**Our neuroradiologists have additional subspecialty training in the following areas:**

- Brain – demyelinating diseases (eg, MS), dementia (eg, Alzheimer’s)
- Spine and spinal interventions
- Brain tumors
- Head and neck malignancies
- Traumatic brain injury
- Pediatric neuroimaging

## ASSESSMENTS

Our in-house capability includes analyzing both anatomic and functional neuroimaging acquired in clinical trials.

### **Anatomic**

- Stroke (ischemic/hemorrhagic) lesion detection
- MS lesion detection and volumetric quantitation
- Brain atrophy: quantify and track over serial time points
- Carotid/Cerebral stenosis
- Carotid plaque: evaluate morphology
- Brain tumors: detection and quantitation

### **Functional**

- Stroke lesion analysis using MRI diffusion-weighted sequences or MR/CT perfusion techniques
- Alzheimer’s detection on PET/CT using a variety of radiopharmaceuticals
- Brain tumors: MR Perfusion Our in-house capability includes analyzing both anatomic and functional neuroimaging acquired in clinical trials.

## MODALITIES

- PET/CT
- MRI/MRA
- MR Spectroscopy
- Diffusion Tensor Imaging (DTI)
- CT/CTA
- Ultrasound (carotid vascular imaging)
- Transcranial/Intracranial Doppler

## TAKE A LOOK AT IMAGING ENDPOINTS



## **NEUROLOGY IMAGING (Cont.)**

No other imaging core lab can match the experience and expertise of Imaging Endpoints.

Contact us to find out all the ways we can accelerate your clinical trial.