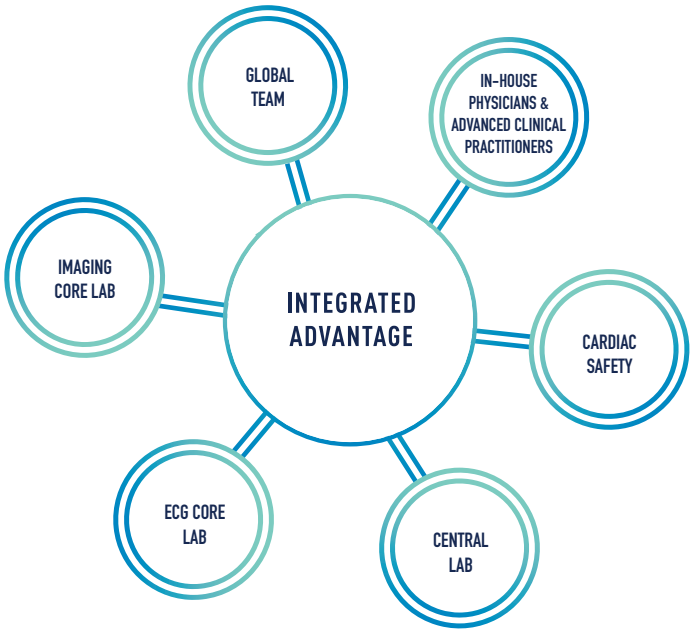
MEDPACE

A DEEPER DIVE INTO NEUROMUSCULAR DISEASES

AN INTEGRATED ADVANTAGE

Diseases characterized by neuromuscular degeneration are particularly challenging when it comes to study design and endpoint selection. As a full-service and therapeutically-focused CRO, Medpace specializes in the design and conduct of global trials in neurology and psychiatry, including neuromuscular disorders. We bring a global footprint, strategic medical, regulatory and operational leadership as well as fully integrated central labs and core imaging services to enhance and expedite development.



THERAPEUTICALLY-FOCUSED TEAM

Medpace is unique in its scientifically-driven approach to clinical research. Our model gives Sponsors the advantage of early and ongoing insight and guidance from a team of therapeutic experts throughout trial design and execution. Our highly-experienced team of medical, regulatory, and operational experts work collaboratively to conduct clinical trials. We understand issues from the perspective of Sponsors, clinical investigators, scientific leaders, and reviewers at regulatory agencies. With this insight, we successfully define and execute clear development plans from beginning to end.

The complexities of mental health research require a heightened level of integration and efficiency. We combine strategic medical, regulatory and operational leadership to execute at the highest level.

EXPERTS

EXPERT INSIGHT

Serving as therapeutic team leaders, our in-house medical doctors provide strategic direction for study design and planning, train operational staff, work with Investigators, provide medical monitoring, and meet with regulatory agencies as well as our global regulatory affairs experts to provide strategic guidance into the best pathways to accelerate approvals. Our MDs are embedded throughout every study, providing greater depth of expertise and the ability to tackle complex and challenging diseases.

Rich D. Scheyer, MD
Sr. Vice President, Medical Department

Teresa León Colombo, MD, PhD
Vice President, Medical Department

Raúl Barahona-Hernando, MD
Medical Director

Carmen Gasca Salas, MD, MSc, PhD
Medical Director

Boban Joksimovic, MD, PhD
Medical Director

John P. Kachoris, MD
Medical Director

Sonia Quintas, MD, PhD
Medical Director

ADVANCED CLINICAL PRACTITIONERS ADD A PATIENT'S PERSPECTIVE

Our medical directors are supported by experienced ACPs whose unique perspective brings added value to the clinical development team. These highly-trained nurse practitioners with advanced degrees and hands-on clinical experience provide an additional layer of knowledge and insights that can streamline your studies and address potential challenges early in the study planning. ACPs are embedded in the teams to ensure your study is feasible and operationalized for efficient execution by looking at the protocol through the lens of the patient and site staff. ACPs also help with the review of safety events, ongoing team education, recruitment strategies, and study document review. Their understanding of what works in a clinical setting makes them a valuable part of our embedded medical expertise model.

Danielle Caudell-Stamper, MSN, AGACNP-BC
Advanced Clinical Practitioner

Danielle Mattingly, FNP-BC, MPH
Advanced Clinical Practitioner

Daniela Rae, MSc, RGN, IP
Advanced Clinical Practitioner

IN-HOUSE PHYSICIAN BIOGRAPHIES

Richard D. Scheyer, MD

Sr. Vice President, Medical Department, Neurology, Pharmacology

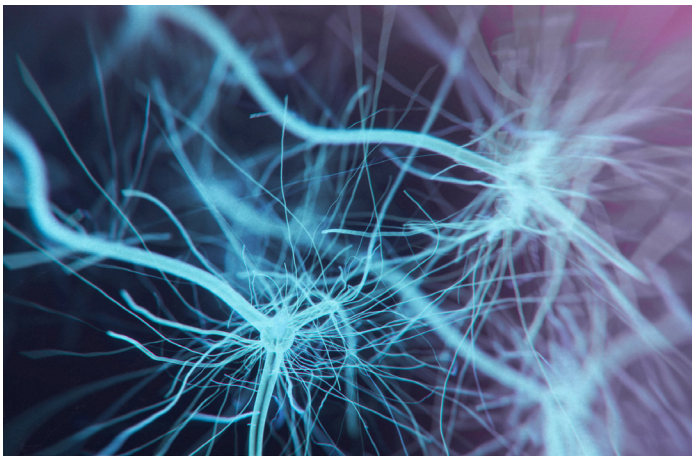
Dr. Richard Scheyer is a board-certified neurologist with over 30 years of professional medical experience which includes over 20 years dedicated to clinical drug development.

Experience Summary

- Pioneer in translational medicine and Phase I/IIa drug development with special interest in early demonstration of clinical efficacy
- Led a team that designed and executed an early development program for next-generation alpha-2 delta ligand, including capsaicin challenge, and crafting Proof of Concept strategy for novel ion channel blockers
- Highly-regarded author with over 60 manuscripts and abstracts, with a focus on clinical pharmacology and therapeutic activity in areas ranging from diabetes to oncology
- Launched first controlled trial natural product-derived protein kinase C activator in Alzheimer's at previous company

Education Summary

- Bachelor of Science, Physics, Stanford University
- Doctor of Medicine, The State University of New York, Upstate Medical University
- Residency in Neurology, Yale University
- Fellowship Training in Epilepsy, Yale University



Teresa León Colombo, MD, PhD

Vice President, Medical Department, Neruology

Dr. Teresa León Colombo is a board-certified neurologist based in Madrid, Spain with 30+ years of clinical development experience and 25+ years of leadership specializing in neurodegeneration and rare neuroscience disorders

Experience Summary

- Led global and regional medical strategies covering Phase II–IV development, lifecycle management for multiple drugs including blockbusters, orphan drug development, global launches (pregabalin and eletriptan), and RWE
- Provided strategic oversight for clinical development plans, TPP, regulatory submissions (EMA/FDA), and scientific platform positioning
- Several years of experience in both big pharma (GSK, Pfizer and Novo Nordisk) and biotech (Noscira)
- Represented organizations at international scientific congresses and advisory boards, strengthening global KOL engagement and thought leadership.
- Directed cross-functional teams and built global publication strategies, advancing scientific communication and supporting HEOR
- Championed early evidence generation initiatives, including real-world data integration and biomarker strategy development
- Advised biotech and CRO clients on CNS diseases (neurodegenerative and rare diseases), including protocol design, feasibility, regulatory positioning and study oversight

Education Summary

- Doctor of Philosophy, Cerebrovascular Diseases, Universidad Autónoma de Madrid, Spain
- Doctor of Medicine, Universidad Autónoma de Madrid, Spain

Raúl Barahona-Hernando, MD

Medical Director, Medical Department

Raul Barahona-Hernando is a board-certified neurologist based in Madrid, Spain with over a decade of specialized clinical practice and a special focus on neuromuscular diseases, as well as clinical development experience supporting the successful advancement of therapies for complex neurological conditions, including Myasthenia Gravis, ALS, and rare neuromuscular disorders.

Experience Summary

- Board-certified neurologist with deep experience managing complex neuromuscular disorders including ALS, myasthenia and CIDP, bringing real-world clinical insight into trial design, patient selection, and endpoint strategy.
- Specialist in EMG and neurophysiological assessments, strengthening biomarker integration, site training, and consistency of critical efficacy endpoints across studies.
- Broad experience across top-tier academic and private healthcare systems, enabling effective collaboration with investigators and cross-functional teams to enhance study execution, data quality, and patient retention.
- Extensive research expertise in neuromuscular disorders, Myasthenia Gravis, CIDP, ALS, and rare diseases.
- Experience in global Phase III interventional trials, providing critical insights into protocol execution, patient screening, and rating scales.

Education Summary

- Residency, Neurology, Hospital Clínico San Carlos, Madrid, Spain
- Observership, Neuromuscular Disorders, The Children's Hospital at Westmead, Sydney, Australia
- Doctor of Medicine, Universidad Autónoma de Madrid, Spain

Carmen Gasca Salas, MD, MSc, PhD

Medical Director, Medical Department

Dr. Carmen Gasca Salas is a board-certified neurologist based in Madrid, Spain with over eighteen years of clinical experience in neurology, fourteen of them dedicated to patients with movement and/or cognitive disorders.

Experience Summary

- Experience in the design and execution of research projects on Parkinson's disease and other movement disorders
- Expertise in high-intensity focused ultrasound, deep brain stimulation and botulinum toxin injections for patients with movement disorders, and infusions of PD medications
- Co-led the first blood-brain barrier opening trial with focused ultrasound in Parkinson´s disease – Phase I
- 10+ years of experience as an investigator in clinical trials
- Highly regarded author with contributions to 60+ peer-reviewed publications
- Member of editorial committees of international journals of Neurology, scientific reviewer, and member of research study groups in Neurology
- Lecturer in the Faculty of Medicine at several universities in Spain
- MDS-UPDRS, UDysRS, and MoCA training certificates

Education Summary

- Master of Nutrition and Health, University of Catalonia – Spain
- PhD in Neuroscience and Cognition (Faculty of Medicine), University of Navarra – Spain
- Memory Unit Clinical Assistant, University of Toronto – Canada
- Movement Disorders Fellowship, University of Toronto – Canada
- Predoctoral Fellowship, The Centre for Networked Biomedical Research in Neurodegenerative Diseases (CIBERNED) – Spain
- Residency in Neurology, University of Navarra – Spain
- Bachelor of Medicine and Surgery, University of Zaragoza – Spain

Boban Joksimovic, MD, PhD

Medical Director, Medical Department

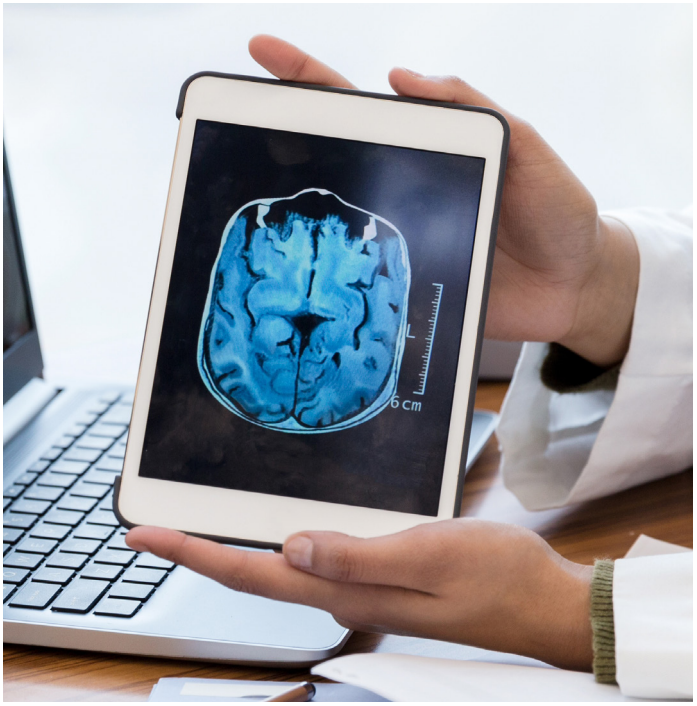
Dr. Boban Joksimovic is a board-certified neurologist with a PhD in neuroscience and over 20 years of clinical experience in neurology.

Experience Summary

- 17 years of CRO experience as a Medical Director, Clinical Operations Lead, and Clinical Research Associate in Phase I-IV studies
- Expert in intraoperative neurophysiology and EMNG with neuromuscular disorders in focus
- Previously practiced as a neurophysiologist and introduced intraoperative neurophysiology to Serbia in 2008
- Extensive experience as Sub-investigator and rater in CNS studies
- Rankin Scale, NIHSS, Neurostatus EDSS, MDS-UPDRS, Modified Hoehn and Yahr, MoCA training certificates

Education Summary

- Doctor of Philosophy in Intraoperative Neurophysiology, University of Kragujevac – Kragujevac, Serbia
- Board Certified Neurologist, University of Novi Sad – Novi Sad, Serbia
- Medical Doctor, University of Belgrade – Belgrade, Serbia



John P. Kachoris, MD

Medical Director, Neuroscience Team

Dr. John Kachoris is a board-certified adult neurologist with extensive expertise in neurocritical care and acute stroke management. With over a decade of experience in clinical neurology, Dr. Kachoris has been instrumental in advancing neuroscience programs and enhancing stroke care capabilities.

Experience Summary

- 15 years of experience as attending neurologist in both in-patient and out-patient settings
- Director of Neurocritical Care, responsible for transitioning hospital to an AHA/ASA Comprehensive Stroke Center
- Director of Neuroscience Education, preceptor and lecturer for resident physician neurology rotation
- Volunteer Faculty at University of Kentucky School of Medicine, preceptor for medical student neurology rotation and sub-internship
- Member of hospital Medical Executive Committee, Multidisciplinary Peer Review Committee, and Regional Stroke Order Set Committee
- Previous City of Chicago Paramedic and Assistant EMS Coordinator for the Chicago North EMS System

Education Summary

- Doctor of Medicine, Rush Medical College, Chicago, Illinois
- Neurology Residency, Loyola University Medical Center, Maywood, Illinois
- Neurocritical Care Fellowship, University of Cincinnati Medical Center, Cincinnati, Ohio
- Board Certified in Adult Neurology by the American Board of Psychiatry & Neurology (ABPN)

Sonia Quintas, MD, PhD

Medical Director, Medical Department

Dr. Sonia Quintas is a board-certified neurologist based in Madrid, Spain with 10+ years of professional experience specializing in headache, sleep disorders, cerebrovascular disease, epilepsy, and movement disorders.

Experience Summary

- Extensive clinical, research, and teaching experience spanning headache, sleep disorders, cerebrovascular disease, epilepsy, and movement disorders.
- Deep expertise in designing, coordinating, and executing international clinical trials (Phase II – IV) and competitive observational studies.
- Skilled in medical oversight, safety management, regulatory documentation, and scientific dissemination.
- Established scientific author with a robust publication record (60+ indexed articles, 30+ as first author)
- Brings a unique combination of clinical practice, medical education, and clinical research experience to roles requiring scientific leadership and strategic insight.
- Experience in coordinating multidisciplinary teams and participating in international collaborations.
- Adept at translating complex scientific concepts for diverse audiences, effectively bridging clinical practice, research execution, and strategic project development.

Education Summary

- MD – Medicine, Universidad Autónoma de Madrid, Spain (2006–2012)
- Neurology Residency, Hospital Universitario de La Princesa, Madrid (2013–2017)
- Master's Degree in Movement Disorders, Universidad de Murcia
- Postgraduate Expert in Headache, Universidad Francisco de Vitoria
- University Expert in Neurosonology, Universidad de Murcia
- Postgraduate Courses: Epilepsy, Cognitive and Behavioral Neurology

Danielle Caudell-Stamper, MSN, AGACNP-BC

Advanced Clinical Practitioner

Mrs. Danielle Caudell Stamper is a board-certified advanced practice registered nurse bringing over 8 years of clinical and preclinical research experience, over 3 years of nursing experience and over 7 years of experience as a nurse practitioner providing direct patient care.

Experience Summary

- Clinical experience in neuro critical care, pulmonary critical care, and transplant medicine.
- Served as a sub-investigator on multiple clinical trials, including investigation of genomic classifiers for idiopathic pulmonary fibrosis, proteomic risk evaluation for lung cancer, the treatment of persistent air leak after pneumothorax, a novel device for the treatment of emphysema, and devices in improving the diagnostic yield of biopsies
- Over eight years of clinical and preclinical neurological research experience as a senior clinical research assistant specializing in hemorrhagic stroke, traumatic brain injury, aneurysm, and ischemic stroke
- Involved in the conduct of over 40 clinical trials as a clinical trial nurse coordinator and regulatory specialist
- Member of the American Academy of Neurology (AAN), American Association of Bronchology and Interventional Pulmonology (AABIP) and American College of Chest Physicians (CHEST)

Education Summary

- Master of Science in Nursing in Adult Gerontology Acute Care Nurse Practitioner, University of Cincinnati – Cincinnati, OH
- Bachelor of Science in Nursing, University of Cincinnati – Cincinnati, OH
- Bachelor of Arts in Biology, Thomas More University – Crestview Hills, KY
- Associate of Arts in Spanish, Thomas More University – Crestview Hills, KY

Danielle Mattingly, FNP-BC, MPH

Advanced Clinical Practitioner

Ms. Mattingly is a certified Family Nurse Practitioner and Neuroscience Registered Nurse. She brings experience in clinical research, public health, and health policy.

Experience Summary

- Extensive experience as a Neurology Nurse Practitioner at multiple university medical centers
- Experience providing both inpatient and outpatient care of patients, including patients with epilepsy and sleep disorders
- Served as sub-investigator on active clinical trials for novel treatments of localization related epilepsy, narcolepsy, and idiopathic hypersomnia
- Actively worked to create an education lecture series for neurology advanced practice providers
- Active member of multiple neurology and advanced practice nursing associations

Education Summary

- Master of Science in Nursing, Family Nurse Practitioner, Columbia University – New York, NY
- Master of Public Health in Health Policy and Management, Columbia University – New York, NY
- Bachelor in Nursing Science, Columbia University – New York, NY
- Bachelor of Arts in Public Health, Vanderbilt University – Nashville, TN

Daniela Rae, MSc, RGN, IP

Advanced Clinical Practitioner

Daniela Rae is a registered Consultant nurse and Independent Prescriber (UK). She brings nearly decades of senior clinical leadership and research experience in neuroscience, with a focus in neurodegeneration, neuropsychiatry and neurogenetics.

Experience Summary

- Extensive experience in Huntington's disease, rare dementia and cognitive disorders– genetic counselling, clinical assessment and management, policy and standards of care development as well as clinical and academic research.
- Former clinical lead providing operational and clinical leadership for a large, multidisciplinary team, including medical consultants, nurses, trainees, and external key stakeholders.
- Managed an autonomous clinical caseload in a world leading tertiary outpatient clinic for patients and families with neurological, neuropsychiatric, neurogenetic, and neurodegenerative disease.
- Former Scottish government research fellow functioning as Chief investigator and Lead researcher for a multi-center organizational case study investigating care delivery systems in Huntington's disease
- Served as lead and key contributor for international working groups developing standards of care guidelines in rare, neurodegenerative disease
- Extensive experience as senior research nurse, trials manager, sub- and principal investigator in clinical trials with neurodegenerative and critical care focus
- Served as lead and key contributor for international working groups/ taskforce developing standards of care guidelines in rare, neurodegenerative disease

Education Summary

- Diploma in Psychological Therapies, Association of Psychological Therapies – London, United Kingdom
- Master of Science in Public Health and Health Services Research, University of Aberdeen – Aberdeen, United Kingdom
- Diploma in Adult Nursing, Berufsfachschule fuer Krankenpflege – Munich, Germany

EXPERIENCE

Medpace combines our team of neurologists with our cross-functional team of rare disease experts to support Sponsors developing therapies for rare neurological disorders.

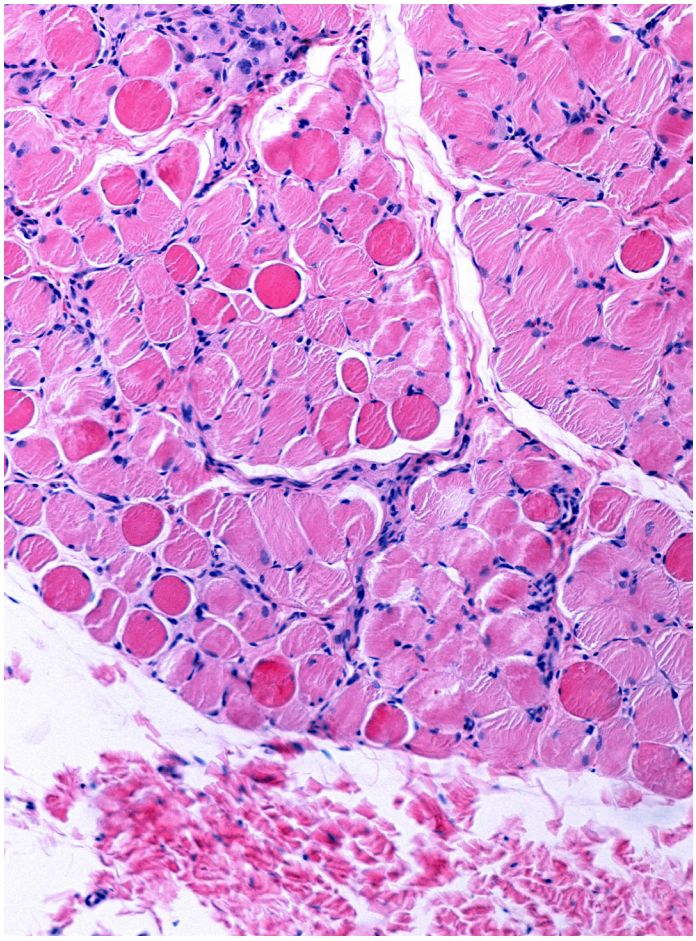
We Have Amassed Experience in Various Rare Neuromuscular Indications Such As:

- Allan-Herndon-Dudley Syndrome
- Amyotrophic Lateral Sclerosis
- Charcot Marie Tooth Disease
- Duchenne Muscular Dystrophy
- Facioscapulohumeral Muscular Dystrophy
- Familial Amyloidosis Polyneuropathy
- Foot Drop
- Mitochondrial Myopathy
- Mucopolysaccharidosis
- Muscular Dystrophies
- Myasthenia Gravis
- Myotonic Dystrophy
- Nonsense Mutation Dystrophinopathy
- Pompe disease
- Spinal Muscular Atrophy
- Spasticity
- X-Linked Adrenoleukodystrophy

RECRUITMENT AND SITE RELATIONSHIPS

Due to the unique challenges associated with rare disease studies, partnering with a CRO with expertise in enrolling rare disease patients and maximizing site selection to create realistic study feasibility is crucial. Medpace understands this challenge. Our multi-dimensional recruitment model enables us to implement innovative, comprehensive, and customized recruitment and retention strategies that identify, recruit, and retain members of specific patient populations.

Medpace has also established a productive network of key clinical sites and large academic institutions who specialize in CNS rare disease disorders ensuring study timelines and key milestones are achieved. Our physicians and professional staff have in-depth knowledge of screening tools and rater scales and will provide oversight for rater services including subjective assessments, inter-rater reliability, and scale validation.



RELATIONSHIPS WITH PATIENT ADVOCACY GROUPS

Medpace recognizes the importance of collaborating with advocacy groups. Although advocacy groups vary greatly in size, scope, and purpose, they regularly offer insight into who is treating patients, what is important to patients, and lessons learned from past clinical trials. Advocacy group collaboration raises awareness for your clinical trial and can be an invaluable partnership for the life of your drug.

Medpace is well versed in working with sponsors and advocacy groups of all different sizes globally in order to ensure clinical trials are designed and operated with the patients in mind. Medpace can help sponsors forge new relationships with advocacy groups or support existing relationships seamlessly.

EXECUTION

The complexities of mental health research require a heightened level of integration and efficiency. We combine strategic medical, regulatory and operational leadership as well as well as fully integrated Central Labs and Core Imaging Services to execute at the highest level.

CENTRAL LABS

Medpace Central Labs provide consistency in methods and instrumentation across wholly-owned and purpose-built laboratories located in the US, Europe, China, and Singapore. We offer a wide range of relevant biomarker assays for stroke and have the ability to rapidly establish and validate novel assays as needed. Over the past several years, Medpace has validated hundreds of new biomarker assays based on guidelines from the Clinical and Laboratory Standards Institute (CLSI) and in accordance with CAP and CLIA regulations.

CORE IMAGING

High-quality image acquisition and interpretation is crucial for the success of trials relying on imaging, including neuroimaging for patient selection or as a primary endpoint. Medpace provides centralized neuroimaging expertise, led by radiologists, neurologists and neuroscientists with decades of clinical and trial experience.

Medpace Imaging Core Lab provides a suite of imaging services to enhance and expedite biopharmaceutical and imaging contrast agent development, including a broad spectrum of imaging biomarkers for rare neuromuscular disease trials.

Capabilities Include Advanced Quantitative Magnetic Resonance Imaging Measures For:

- Muscle Fat Fraction (MRI-PDFF, MRS)
- Elastography
- Muscle cross-sectional area or volume
- Anatomic and functional brain mapping

FULL-SERVICE CLINICAL DEVELOPMENT

Medpace is a scientifically-driven, global, full-service clinical contract research organization (CRO) providing Phase I-IV clinical development services to the biotechnology, pharmaceutical and medical device industries. Medpace's mission is to accelerate the global development of safe and effective medical therapeutics through its high-science and disciplined operating approach that leverages local regulatory and deep therapeutic expertise across all major areas including oncology, cardiology, metabolic disease, endocrinology, central nervous system and anti-viral and anti-infective.