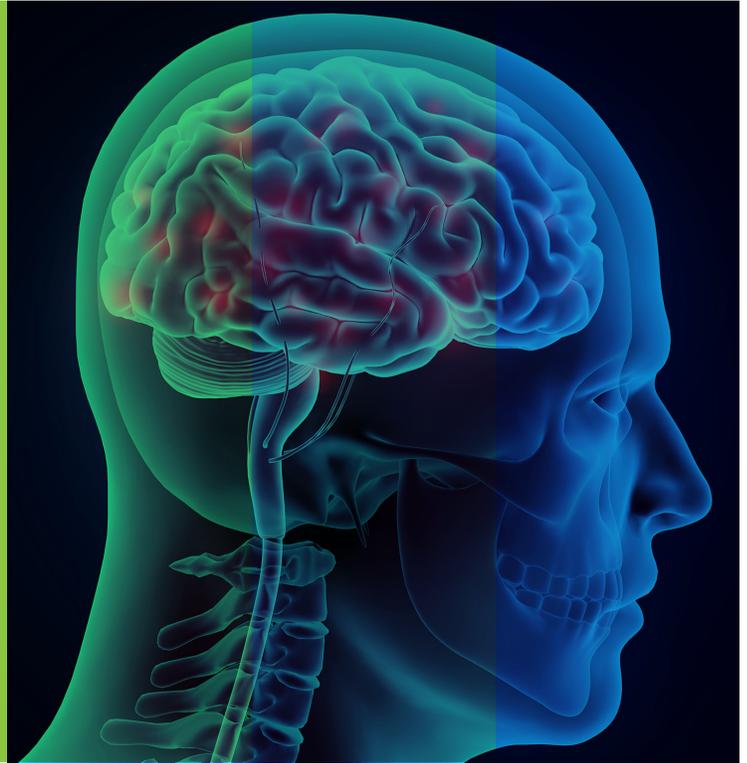




## DEEP BRAIN STIMULATION



## Successful treatment relies on extensive expertise in MER and stimulation mapping

Today, you need reliable, proven partners who align with your goals, who care as much about your patients and your success as you do. Delivering higher value healthcare is a top priority, and the key to better value is providing patients with the best quality care and outcomes while avoiding and reducing costs. Our customers know this. It's why more than 700 hospitals and 2,300 surgeons trust us for Intraoperative Neuromonitoring, Deep Brain Stimulation, and Neurodiagnostic Services. We've been dedicated to improving value for three decades.

### DEEP BRAIN STIMULATION

The members of SpecialtyCare's Neurosurgical and Neurodiagnostic Services division support over 100,000 procedures annually. This market-leading volume means that our clinicians provide exceptional quality and trusted experience when it matters most. As part of this team, our Deep Brain Stimulation (DBS) group is comprised of PhD-trained neurophysiologists who perform over 800 procedures in 70 hospitals annually. These specialists have extensive experience in microelectrode recording and stimulation mapping for DBS procedures. Our unmatched expertise and consistent, exceptional performance enables surgeons to achieve optimal treatment results for their patients.



**PROVIDING THE CERTAINTY OF CLINICAL EXPERTS**

9 out of 10 customers say that SpecialtyCare positively contributes to the quality of patient care, that we are an integral part of their OR team, and that their surgeons are pleased with the quality of our service. We value ongoing training and education and data-driven research and innovation. In fact, our team of 600 neurosurgical and neurodiagnostic specialists is the most highly certified and advanced degreed group in the industry. It's all part of our commitment to provide you with the certainty of exceptional care.

**EFFICACY OF DBS NEUROPHYSIOLOGY**

The anatomical targets used for DBS treatment are poorly visualized in MRI images, and their location can shift following the craniotomy due to pneumocephalus and CSF loss. Microelectrode recording (MER) and stimulation mapping are performed intraoperatively to ensure positive identification of DBS targets and account for anatomical variability prior to implantation of the permanent DBS lead. DBS neurophysiology differs from standard neuromonitoring in that it requires specialized equipment and highly experienced staff who can provide technical interpretation of the results directly to the neurosurgeon in real time.

**ACCURACY DRIVES OPTIMAL TREATMENT RESULTS**

The success of DBS therapy depends upon accurate placement of the DBS lead, which allows maximal treatment efficacy and battery life with minimal stimulation-induced side effects. To ensure the degree of accuracy needed to achieve optimal results, we provide you with PhD neurophysiologists who have extensive experience in microelectrode and stimulation mapping techniques.

Our staff receives hands-on training at many of the busiest DBS centers in the country and gains additional experience in stereotactic, neurophysiology, and surgical planning systems at top-tier DBS hospitals. As a result, our neurophysiologists are able to provide expert technical interpretation of microelectrode and stimulation mapping results, and will work with you to provide a highly customized and efficient mapping protocol that does not add significant surgical time.

**PUTTING PATIENTS FIRST**

Over 1000 times every day, our dedicated experts are entrusted to help someone's parent, or child, a loved one, or a friend, to live a better life. Contact us and discover why more hospitals partner with SpecialtyCare to transform their services and improve the value of healthcare delivery.

**EXPERT GUIDANCE, UNMATCHED EXPERIENCE**

Our experience in deep brain stimulation dates back to 2001. Today, we assist in about one in every eight DBS procedures performed in the U.S. Our specialists are integrated members of the surgical team, providing guidance to the surgeon before, during, and after the DBS implant surgery.

- Provide capital equipment necessary for subcortical brain mapping, including microelectrode recording and microdrive systems from FHC or Alpha-Omega
- Assist with surgical planning
- Set up, operate, and troubleshoot the neurophysiology system
- Operate microdrives that advance microelectrodes so that the surgeon does not need to scrub out
- Identify location of neurons responsive to kinesthetic, tactile, or visual stimulation
- Assist in identification of stimulation-induced treatment efficacy and side effects
- Summarize the technical interpretation of MER and stimulation results to the neurosurgeon, and assist in identification of optimal location to implant the DBS lead
- Consult on technical issues related to the DBS procedure
- Provide didactic support for OR staff, residents, and visitors regarding the theory and practice of deep brain stimulation
- Provide scientific support for ongoing research projects



*Accredited and Certified  
by The Joint Commission*