

DIVISION SCOPE OF SERVICE

Division: MID AMERICA

Classification: DBS NEUROPHYSIOLOGIST

Applicant Name:

DBA Neurophysiologist:

The DBS Neurophysiologist must have equivalent qualifications, competence and function in the same role as employed individuals performing the same or similar services at the facility, as defined by facility job description.

Definition of Care or Service:

Deep brain stimulation (DBS) is a therapy used to treat the symptoms of a number of medically refractory brain disorders including: Parkinson's disease, essential tremor, dystonia, neuropathic pain, and obsessive compulsive disorder. The success of this therapy depends upon the accurate placement of the DBS electrode into the targeted brain areas. Microelectrode recording (MER) and macrostimulation-mapping are commonly performed intraoperatively to ensure positive identification of DBS targets prior to implantation of the permanent DBS electrode. DBS neurophysiology differs from standard intra-operative neuromonitoring, in that it requires specialized equipment and highly experienced staff that can provide technical interpretation of the results directly to the neurosurgeon. The Scope of Services includes:

- Assist with surgical planning
- Set-up, operate, and troubleshoot neurophysiology system
- Identify location of neurons responsive to kinesthetic, tactile, or visual stimulation
- Assist in the identification of stimulation-induced treatment efficacy and side effects
- Provide summary (technical interpretation) of MER and stimulation results to neurosurgeon, and assist in identification of optimal
- location to implant the DBS lead
- Upon request, consult on technical issues related to the DBS procedure
- Provide didactic support for OR staff, residents, and visitors regarding the theory and practice of DBS
- Demonstrates Clinical and Service excellence behaviors to include HCA code of conduct core fundamentals in daily interaction with patient, families, co-workers and physicians

Setting(s):

- Surgical services areas including but not limited to hospitals and outpatient surgery centers.

Supervision:

- Direct supervision by ordering physician, performing only those functions specifically requested
- Indirect supervision by the department director, site manager or designee

Evaluators: Department director or designee in conjunction with ordering physician or licensed independent practitioner.

Tier Level: 3

eSAF Access Required: Yes

Qualifications:

- **One** of the below education requirements:
 - As of January 1, 2010, new applicants must possess a PhD degree in a physical science, life science, or clinical allied health professional from an accredited institution.
 - Prior to January 1, 2010, clinical neurophysiologists must possess a Masters or PhD degree.

NOTE: Where education may not be defined in qualifications area of the Scope, HCA Healthcare requires the highest level of education completed (not training or courses) confirmed on your background check.

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State Requirements:
<ul style="list-style-type: none"> N/A
Experience:
<ul style="list-style-type: none"> Evidence of primary responsibility for monitoring at least 25 surgical procedures in the past 12 months
Competencies:
<p>The DBS Neurophysiologist will demonstrate:</p> <ul style="list-style-type: none"> Provides a safe environment for patients <ul style="list-style-type: none"> Uses at least two ways to identify patients before providing treatment or service Participates in the pre-procedure process to verify the correct procedure, for the correct patient, at the correct site and involves the patient in the verification process when possible Participates in a time-out immediately before the start of an invasive procedure or making of the incision Safe and effective operation of electroneurodiagnostic equipment <ul style="list-style-type: none"> Consistently obtains quality diagnostic outputs Maintains equipment to ensure accurate testing and diagnosis Operates digital computerized electroencephalography (EEG) instruments Demonstrates effective infection control practices related to equipment operation Accurate patient information review <ul style="list-style-type: none"> Verifies that the requested procedure correlates with the patient's clinical history, presentation and physician order Accesses the patient medical record appropriately Makes notes on the recorded graph to identify interferences Documents in the medical record according to the facility standard / policy Appropriate Diagnostic Examination Results <ul style="list-style-type: none"> Performs the electroneurodiagnostic study to comply with applicable protocols and guidelines Provides a written or oral summary of preliminary findings to the physician Notifies the appropriate health provider when immediate treatment is necessary, based on procedural findings and patient conditions Infection Prevention <ul style="list-style-type: none"> Practices consistent hand hygiene Uses personal protective equipment (PPE) Required immunizations per Division requirements Complies with Isolation precautions Complies with required surgical attire Maintains sterile field
References:
<ul style="list-style-type: none"> N/A
Document Control:
<ul style="list-style-type: none"> CREATED 4/15/2025



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Your signature confirms you will be able to comply with the Qualifications and Competencies listed within this Scope of Service and that you will confirm education via your background check.

Applicant Printed Name: _____

Signature: _____

Date: _____