

## MEET McLAREN

# NEURODIAGNOSTICS: EMG, NCS, AND EEG TESTING

Neurodiagnostic tests can be used to identify a variety of underlying pathologic processes. Some disorders that may be discovered could include carpal tunnel syndrome, neuropathy, amyotrophic lateral sclerosis, Guillain-Barré syndrome, muscular dystrophy, brachial plexopathy, cervical and lumbar radiculopathy, myasthenia gravis, radiculopathy, and peripheral polyneuropathy.

- **Needle Electromyography (EMG)** measures muscle response or electrical activity in response to needle evaluation of the muscle.
- **Nerve Conduction Studies (NCS)** uses a series of surface electrodes placed along specific peripheral nerves. The information from these tests is used to help identify neuromuscular abnormalities.

EEG may be used to evaluate several types of brain disorders which include seizures, syncope, narcolepsy, and brain lesions resulting from tumors or stroke. EEG can also be used to evaluate the extent of brain damage following trauma, drug intoxication, or patients who are comatose.

- **Electroencephalogram (EEG)** can detect abnormalities in the brain waves, or electrical activity of the brain, and is most commonly used to show the type and location of the activity in the brain during a seizure. During the procedure, electrodes consisting of small discs with thin wires are pasted onto the scalp.

### HOW TO REFER:

EEG's are read by physicians from MSU Neurology. Outpatient EEG testing is provided Tuesday – Friday and can be scheduled by faxing a referral to our central scheduling department at (810) 600-7864. Preliminary test results are available within 48 hours of the test being performed. Referral form is on the back. For EMG's, fax the referral form to (517) 975-2934.



GREATER LANSING

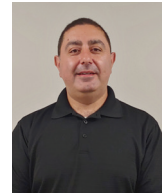
## MEET THE PHYSICIANS



MICHAEL  
ANDARY, MD



NATHAN  
CONDIE, DO



RANI  
GEBARA, DO



JAMIESON  
HAAK, DO



MARCY  
SCHLINGER, DO

### CONTACT:

McLaren Greater Lansing  
Neurodiagnostic Center  
3101 Discovery Drive, Suite 300  
Lansing, MI 48910

Phone: (517) 975-2935



Accredited by the  
American Association  
of Neuromuscular  
& Electrodiagnostic  
Medicine (AANEM).

For more service line information,  
visit [mclaren.org/careconnect](http://mclaren.org/careconnect).

**Neurodiagnostics/EMG Clinic**3101 Discovery Dr. Ste 300  
Lansing, MI 48910517-975-2935 Phone  
517-975-2934 Fax  
www.mclaren.org/lansing

Patient Name:	Phone:
DOB:	Insurance:
If Worker's comp:	
Date of Injury:	Claim #:

<input type="checkbox"/> REFERRAL FOR EMG	
<i>Requested Exam</i>	<i>Extremity to be examined</i>
<input type="checkbox"/> EMG <input type="checkbox"/> NCS <input type="checkbox"/> Single Fiber <input type="checkbox"/> Other:	<input type="checkbox"/> Right <input type="checkbox"/> Arm <input type="checkbox"/> Left <input type="checkbox"/> Leg <input type="checkbox"/> Bilateral <input type="checkbox"/> Other:
<i>Diagnosis</i>	<i>Patient Instructions</i>
<ul style="list-style-type: none"><li>• Peripheral Polyneuropathy</li><li>• Carpal Tunnel Syndrome</li><li>• Stenosis</li><li>• Radiculopathy</li><li>• Neuropathy</li><li>• Myasthenia Gravis</li><li>• Other (please describe below):</li></ul>	<ul style="list-style-type: none"><li>• No oil or lotion on extremity/extremities being tested</li><li>• Wear short sleeve/sleeveless shirt for upper extremity EMG</li><li>• Wear or bring shorts for lower extremity EMG</li><li>• Gowns available</li></ul>
<input type="checkbox"/> REFERRAL FOR EEG	
<i>Diagnosis</i>	<i>Patient Instructions</i>
<input type="checkbox"/> Seizure <input type="checkbox"/> Syncope <input type="checkbox"/> Headache <input type="checkbox"/> Dizziness <input type="checkbox"/> Other:	<ul style="list-style-type: none"><li>• Clean dry hair, no sprays or gels</li><li>• Take all medications, but bring a list of what they are</li><li>• Reduce sleep – go to bed 2 hours later and wake 2 hours earlier</li><li>• No caffeine the day of the test</li><li>• Fax referral to 810-600-7864</li></ul>

Physician Name:	
Physician Signature:	Date: