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:**

Patients can expect their first appointment to be within one week of the referral form being completed and sent. Preliminary test results are available within 48 hours of the test being performed. Referral form is on the back.

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.
<table>
<thead>
<tr>
<th>Patient Name:</th>
<th>Phone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOB:</td>
<td>Insurance:</td>
</tr>
<tr>
<td>If Worker’s comp:</td>
<td></td>
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<tr>
<td>Date of Injury:</td>
<td>Claim #:</td>
</tr>
</tbody>
</table>

### Referral for EMG

**Requested Exam**
- [ ] EMG
- [ ] NCS
- [ ] Single Fiber
- [ ] Other:

**Extremity to be examined**
- [ ] Right
- [ ] Arm
- [ ] Left
- [ ] Leg
- [ ] Bilateral
- [ ] Other:

**Diagnosis**
- Peripheral Polyneuropathy
- Carpal Tunnel Syndrome
- Stenosis
- Radiculopathy
- Neuropathy
- Myasthenia Gravis
- Other (please describe below):

**Patient Instructions**
- No oil or lotion on extremity/extremities being tested
- Wear short sleeve/sleeveless shirt for upper extremity EMG
- Wear or bring shorts for lower extremity EMG
- Gowns available

### Referral for EEG

**Diagnosis**
- Seizure
- Syncope
- Headache
- Dizziness
- Other:

**Patient Instructions**
- Clean dry hair, no sprays or gels
- Take all medications, but bring a list of what they are
- Reduce sleep – go to bed 2 hours later and wake 2 hours earlier
- No caffeine the day of the test
- Fax referral to 810-600-7864

Physician Name:

Physician Signature:  
Date: