



M · I · N · D

MICHIGAN INSTITUTE *for* NEUROLOGICAL DISORDERS

TEL 248 553-0010 FAX 248 553-5957 28595 Orchard Lake Rd • Ste 200 Farmington Hills, MI 48334 MindOnline.com

WHAT TO EXPECT FROM AN EMG/NERVE CONDUCTION STUDY

EMG and Nerve Conduction Study is an electrical testing of nerves and muscles. The Nerve Conduction portion of the study is performed by a specially trained technician or a physician. The EMG is performed by the physician.

The average test will take approximately one hour or more, each study varies per patient.

EMG/NCV is performed on patients having problems with their muscles or nerves. It tests the nerves and muscles of the body's extremities, looking for a problem in either of these areas. Your doctor may want you to have this test if he/she thinks you have a pinched nerve in your back or neck is suspected. It also may be ordered if you have tingling or numbness in your arms or legs, or weakness in muscles.

During the test you will be sitting or lying on an examination table.

The first part of the test is the Nerve Conduction Study. Electrodes are applied on the skin over the nerve. The nerve is then stimulated with brief electrical stimulation.

The second part of the test is the EMG. A very thin, fine sterile needle is inserted into the muscle. Your doctor will watch the muscle's response to the needle insertion and how the muscle contracts, relaxes and responds to stimulation of the nerve.

You will be able to hear the sound of the muscle activity amplified by the EMG machine.

After your testing you may resume your normal activities.

Please review our **EMG Preparation Document** for details on how to prepare for an EMG.