

Premier Neurology and Wellness Center

1050 SE Monterey Road, Suite 201

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NERVE CONDUCTION STUDY AND EMG

Background:

Electrodiagnostic testing includes a range of specialized tests, including nerve conduction studies (NCS) and needle electromyography (EMG), that are used to evaluate the peripheral nervous system. This test is an extension of the physical examination, to provide sufficient and valuable information to establish a diagnosis of neuromuscular dysfunction of the peripheral nervous system or muscle disease. The information these tests provide will allow physicians to create a treatment plan that addresses a patient's specific symptoms.

Why is the Test Performed?

Numbness, tingling, pain, muscle wasting or weakness in the body are the most common indications for the study. Typical conditions that require a nerve conduction study are: Spinal disc herniation, carpal tunnel syndrome, ulnar nerve neuropathy, peroneal neuropathy, tarsal tunnel syndrome, polyneuropathy due to diabetes and other metabolic and autoimmune conditions as well.

How is the Test Performed?

For this test, a series of surface electrodes are placed at different locations along specific peripheral nerves. The nerve is stimulated at one site and recorded at a different site to determine if the nerve is conducting appropriately. Each electrical stimulation is recorded as a waveform on a computer and analyzed by the neurologist.

The second portion of the test is used to assess both nerve and muscle functions. A small-diameter concentric needle is placed into a muscle to evaluate insertional activity, resting activity, voluntary recruitment, morphology, and size of motor units, as well as motor unit recruitment.

Test Preparation:

The study is very short in duration. The patient generally will be ready to go home immediately following the test. Dress attire should be short sleeve tops and bottoms. Absolutely **NO BODY LOTIONS OR OILS**.

Canceling Appointments

A notice of at least 24-hours is required should you be unable to keep your scheduled appointment. We reserve the right to charge a \$100 fee for missed appointments or "no shows".

ALL APPOINTMENTS ARE CONFIRMED 48HRS AND 24HRS IN ADVANCE. IF YOU DO NOT CONFIRM WITH OUR OFFICE. WE WILL AUTOMATICALLY CANCEL YOUR APPOINTMENT, AS THIS PROCEDURE IS TIMELY AND LIMITED FOR SCHEDULING.

- Appointment Date: _____
- Appointment Time: _____
- Patient Contact Phone#: _____

Patient Name: _____ Patient Signature: _____