

# DR MELINDA PASCOE

## Neurologist & Neurophysiologist

### EMG NERVE CONDUCTION STUDY INFORMATION AND PREPARATION

Electrophysiological studies are referred to as an EMG but should include an electromyogram (EMG) and a nerve conduction study (NCS). The EMG measures the electrical activity of muscles at rest and during contraction, while the NCS measures how well and how fast the nerves can send electrical signals. An EMG can confirm or verify the objective (as observed by the examining specialist) and subjective (as experienced by the patient) neurological signs. An EMG can also pick up sub clinical damage to nerves and consequently to the muscle prior to that damage being readily observable in a neurological examination.

An EMG may be ordered by your doctor if you are experiencing symptoms such as:

- Tingling or numbness
- Muscle weakness/pain or cramping
- Certain types of limb pain

An EMG is often used to diagnose or rule out a number of conditions such as:

- Muscle disorders, such as muscular dystrophy or polymyositis
- Diseases affecting the connection between the nerve and the muscle, such as myasthenia gravis
- Disorders of nerves outside the spinal cord (peripheral nerves), such as carpal tunnel syndrome or peripheral neuropathies
- Disorders that affect the motor neurons in the brain or spinal cord, such as amyotrophic lateral sclerosis or polio
- Disorders that affect the nerve root, such as a herniated disk in the spine

### THE TEST CONSISTS OF TWO PARTS

1. The first part is the electrical part where some small dots are put on the arm. The nerve is then stimulated with a small electrical current. It's a little shock and can be unpleasant.

2. The second part of the test is the needle part. This may or may not be necessary and Doctor will let you know if this is necessary after she has done the first part. In that part of the test a very fine acupuncture needle is put into the muscle. There is no electricity in that or electrical shock.

The needle records the electrical activity of the muscle. It can cause an aching sensation in the muscle.

**If you require the Doctor to stop the test please say so clearly, calmly and politely and Dr Pascoe will immediately stop the test.**

Dr Pascoe does not do any of the test steps without warning you it is about to happen.

If you want to stop, please say "Please Stop".

### Preparation for your EMG

Please allow 30 minutes for this test.

No creams/ lotions or perfume to be on skin where we are testing.

Please do not stop taking any regular medications.

Please wear underwear and enclosed foot wear.

Warm feet are necessary to proceed with this test. If you feel cold please advise us prior to the start of the test so we can provide you with a blanket and/or heat pack.

**EMG + NCS \$550 (Age Pensioner \$470) CTS ONLY \$400 (Age Pensioner \$350) Rebate \$209.60**

**Signed:**

**Name:**

**Date:**