# **EMG and NCS Patient Information Sheet**

#### What Are EMG and NCS Tests?

**Electromyography (EMG)** and **Nerve Conduction Studies (NCS)** are diagnostic tests used to evaluate the health and function of your muscles and the nerves that control them.

- NCS measures how quickly and effectively your nerves can send electrical signals.
- **EMG** evaluates the electrical activity in your muscles when they are at rest and during contraction.

These tests are commonly ordered to help diagnose conditions such as:

- Nerve compression or injury (e.g., carpal tunnel syndrome, sciatica)
- Neuropathy
- Muscle disorders
- Radiculopathy (nerve root problems from the spine)

### **How to Prepare for Your Appointment**

To ensure accurate test results and a smooth experience, please follow these preparation instructions:

#### Magnetical Before the Test

- Shower or bathe the day of your test to remove oils from your skin.
- Do not apply lotions, creams, or oils to your skin, especially on arms and legs.
- Wear loose, comfortable clothing that allows access to arms and legs. You may be asked to change into a gown.
- Bring a **list of current medications**, especially any blood thinners.
- Inform the doctor or technician if you have:

- o A pacemaker or defibrillator
- o A bleeding disorder
- o Any implanted electrical device

#### X Avoid the Following

- Lotions or skin oils (these can interfere with electrode contact)
- Tight clothing or compression garments
- Heavy exercise just before the test (it can affect muscle results)

## What to Expect During the Test

- The test usually takes **30–90 minutes**, depending on how many areas are being tested.
- **For NCS:** Small electrical pulses are applied to the skin to stimulate nerves. This may cause a brief, mild tingling or twitching sensation.
- **For EMG:** A very thin needle is inserted into a few muscles to record electrical activity. This may cause some mild discomfort or soreness, similar to an injection.

#### **After the Test**

- You can **resume normal activities** immediately after the test.
- Some mild soreness or bruising at the EMG needle sites is normal and should resolve in a day or two.
- If you experience unusual pain, swelling, or signs of infection at a needle site, contact your doctor.