

**EMG / NERVE CONDUCTION STUDY REPORT**

Neurological Institute of Los Angeles

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**Test Date:** 6/14/2024

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Patient:** | FRANCISCO Cisneros | **DOB:** | 5/28/1963 | **Physician:** |  |
| **ID#:** |  | **Height:** | ' " | **Ref Phys:** | Jonathan Eskenazi, M.D. |
|  |  |  |  |  |  |

**Patient Complaints:**

Patient is a 61 year-old male who presents with pain in the left leg. EMG/NCS is requested for further evaluation.

**Summary:**

Informed consent was obtained prior to beginning the study. The patient deactivated the electrical implant for his pain prior to the procedure. Skin temperature was intact. Nerve conduction study of the left leg was normal.

The needle EMG study of the left leg after cleaning the skin with alcohol showed abnormal chronic neuropathic potentials from the left L5 and S1 myotomes.

**Impression:**

This EMG/NCS of the left lower extremity showed electrodiagnostic evidence of chronic left L5 and S1 radiculopathy. Clinical and imaging correlation is advised.

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**James Won, MD**

**Nerve Conduction Studies**

**Anti Sensory Summary Table**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Stim Site** | **NR** | **Peak (ms)** | **Norm Peak (ms)** | **O-P Amp (µV)** | **Norm O-P Amp** | **Site1** | **Dist (cm)** | **Vel (m/s)** | **Norm Vel (m/s)** |
| **Left Sural Anti Sensory (Lat Mall)** | | | | | | | | | |
| Calf |  | 2.1 | <4.1 | 16.3 | >9.0 | Calf | 14.0 | 117 | >41 |

**Motor Summary Table**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Stim Site** | **NR** | **Onset (ms)** | **Norm Onset (ms)** | **O-P Amp (mV)** | **Norm O-P Amp** | **Site1** | **Site2** | **Dist (cm)** | **Vel (m/s)** | **Norm Vel (m/s)** |
| **Left Peroneal Motor (Ext Dig Brev)** | | | | | | | | | | |
| Ankle |  | 4.0 | <5.4 | 1.5 | >1.0 | Ankle | Ext Dig Brev | 8.0 |  |  |
| B Fib |  | 10.3 |  | 1.4 |  | B Fib | Ankle | 30.0 | 48 | >45 |
| Poplt |  | 12.3 |  | 1.6 |  | Poplt | B Fib | 9.0 | 45 |  |
| **Left Tibial Motor (Abd Hall)** | | | | | | | | | | |
| Ankle |  | 4.0 | <5.4 | 3.9 | >4.0 | Ankle | Abd Hall | 8.0 |  |  |
| Pop. Fossa |  | 12.7 |  | 3.9 |  | Pop. Fossa | Ankle | 38.0 | 44 | >42 |

**EMG**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Side** | **Muscle** | **Nerve** | **Root** | **Ins Act** | **Fibs** | **Psw** | **Amp** | **Dur** | **Poly** | **Recrt** | **Int Pat** | **Comment** |
| Left | AntTibialis | Dp Br Peron | L4-5 | Nml | Nml | Nml | Incr | >12ms | 0 | Reduced | 50% |  |
| Left | Gastroc | Tibial | S1-2 | Nml | Nml | Nml | Incr | >12ms | 0 | Reduced | 50% |  |
| Left | VastusMed | Femoral | L2-4 | Nml | Nml | Nml | Nml | Nml | 0 | Nml | Nml |  |
| Left | GluteusMed | SupGluteal | L5-S1 | Nml | Nml | Nml | Nml | >12ms | 0 | Reduced | 50% |  |

**Waveforms:**

  