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**Cedars
Occupational,
Physical,
Pain &
Spine Medical**

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ELECTRO DIAGNOSIS

MEET THE DOCTOR

Fadi Joseph Bejjani, MD, Ph.D

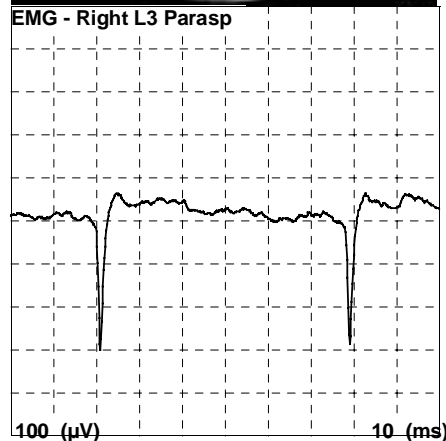
Dr. Bejjani is a seasoned Electromyographer, certified by the American Board and Fellow of the American Academy of Electrodiagnosis Medicine. He has performed more than 8,000 Electrodiagnostic Tests since 1988.

Dr. Bejjani's Ph. D. Dissertation utilized Dynamic Electromyography for the study of repetitive motion. He authored several publications and lectures on Electrodiagnosis. He also served as an expert consultant on the subject in State and Federal Courts.

As a Pain Specialist, Dr. Bejjani has significantly enhanced spinal injection outcomes by utilizing EMG to map-out the back/neck muscles prior to injections. This technique allows more efficient

and focused placement of the spinal needles for improved results.

Lumbar Transforaminal Nerve Root Injection right L3-4



NERVE CONDUCTION STUDIES

Nerves are electrically stimulated to assess how impulses travel, allowing the doctor to assess the size and velocity of the response. The test is performed on both

extremities, using the patient as his/her own control (more accurate than average numbers)

ELECTROMYOGRAPHY

Uses a 30 Gauge 25 to 40 mm non-hollow Teflon electrode needle. Various muscles are sampled in the back, neck or extremities to topographically identify the injury.

EVOKED POTENTIALS

Somatosensory, brainstem or visual. Useful sensory – based test to rule out Multiple Sclerosis, and evaluate post-concussion syndrome. Also, useful for a quick screening of the spinal tracts after trauma or disease.

WHAT SHOULD THE PATIENT KNOW ABOUT ELECTRODIAGNOSIS

- The procedure will last about 1 hour
- The procedure maybe uncomfortable but pre-medication is available orally or intramuscularly

- EMG/NCS is the only test to evaluate / differentiate nerve disease versus nerve injury
- It is the only test to evaluate numbness and tingling in the extremities (Neuropathy)
- Unlike an MRI, EMG is a functional and dynamic real-life test
- A thorough EMG/NCS test can gauge severity, progress, prognosis, and age of the neurological condition.
- Forensically essential test for workers' compensation and automobile injuries of the neck and back
- Standard test for Carpal Tunnel Syndrome and other Repetitive Strain Injuries