

AXON-II Pain-Fiber Nerve Conduction Study (NCS)

Massachusetts General Hospital Handbook of Pain Management states: "In most cases of neck and back pain the anatomic and physiologic diagnosis remains unclear." **This is not the case when spf-NCS is used. Unlike EMG/NCV, which cannot test pain fibers. The pf-NCS has shown sensitivity approaching 100% in detecting and locating which nerve is causing pain. The following studies demonstrate this utility.**

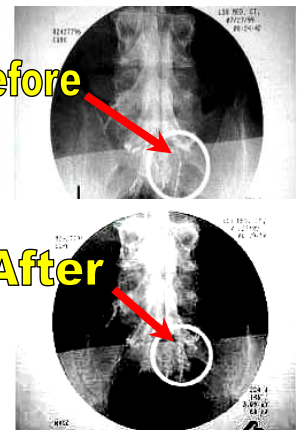
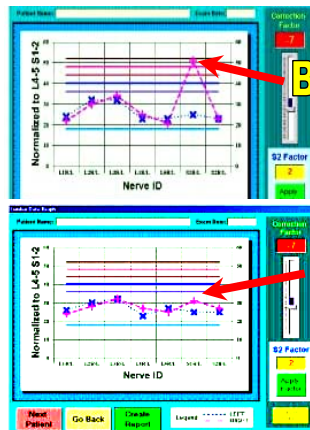
Recent Studies



Pain Fiber NCS . . . 95% Sensitivity
Physical Exam . . . 62% Sensitivity
Specificity Equal 71%+-1%.

2002 - Randall Cork, MD, PhD, Chairman of the Dept. of Anesthesiology and Director of Pain Medicine LSU
A three-year study of patients scheduled for lysis of nerve-root adhesions. Patients were blind tested and compared to the epidurogram findings. Spf-NCS was found to be the most accurate method of locating the nerve root causing pain, numbness or other sensory symptoms. 49 Chronic LBP patients were studied of which 25 were failed back cases.

Top study shows right S1 dysfunction on spf-NCS and no filling of S1 nerve root on epidurogram. Bottom shows filling with normal nerve function.



Fibromyalgia - Pain fiber NCS detects nerve root lesions.



2002 - Presented: American Society of Regional Anesthesia and Pain Medicine (ASRA) Scientific Conference
Randall Cork, MD, PhD of LSU Pain Center. Testing every new admission found that almost every patient referred to LSU with a diagnosis of fibromyalgia had previously undetected nerve root lesions.

At 6 months 1 year follow-ups ten of ten treated patients were found free of all fibromyalgia symptoms.

Neurosurgeon reports pain fiber NCS improves outcomes



2005 - Presented: American Association of Sensory Medicine (AASM) 3rd Annual Conference
Ronald Zellem, MD, Neurosurgeon, reports that in over 102 patients who matched the criteria for surgery the spf-NCS was used to localize the exact level of herniation to conservative therapy and 93% recovered.

Pain Fiber NCS objectively proves and quantifies pain



2006 - Presented: American Association of Pain Management (AAPM) Conference

2005 - Presented: American Association of Sensory Medicine (AASM) 3rd Annual Conference



Alex Ambroz, MD, Assistant Clinical Professor Marshall University School of Medicine, reports on a group of 40 non-compensation patients. The spf-NCS consistently showed a correlation with the reported severity of pain.

Pain fiber NCS identifies piriformis syndrome



2002 - Presented: American Society of Regional Anesthesia and Pain Medicine

2005 - American Association of Sensory Medicine (AASM) Conference

Randall Cork, MD, PhD of LSU Pain Center. A retrospective study of 50 patients found an 80% probability of concomitant piriformis syndrome when the spf-NCS detected abnormal L5 and S1 dysfunction on the same side.

Pain fiber NCS better correlation than pain scales - p<0.001



2006 - Presented: American Association of Sensory Medicine (AASM) 4th Annual Conference

Randall Cork, MD, PhD of LSU Pain Center. Compared pre and post low back intervention subjective pain scales (McGill, Oswestry, Beck and Pras) found objective spf-NCS correlates better than subjective scales - p<0.001.

Complete texts are available at www.paindx.net (STUDIES) or Call Support (800) 766-0884

Present studies underway: U.C. Davis Pain & ReHab., V.A. Hospital Long Island, U. Miami and John Marshall School of Medicine