

ONLY AXON-II TESTS PAIN NERVE FIBERS

- **40%** of all patients seek medical help due to pain *National Institute of Health 2002*
- **43%** of pain patients develop chronic symptoms *NEWSWEEK June 2007*
- **50%+** of spine pain diagnoses unclear *Massachusetts Gen Hosp Handbook Pain Mgmt 2006*
- **50% to 80%** of back surgeries fail *NEWSWEEK June 2007*
- **"EMG/NCV in neck, shoulder and back pain is costly, time consuming and seldom benefits patients."** *Neurology for the Non-Neurologist Weiner & Goetz: Lippincott (2007)*

MOTOR

α

MUSCLE Extrafusal

γ

MUSCLE Intrafusal

EMG/NCV

Only 5% of pain cases have motor deficit to make them candidates for EMG/NCV testing.

SENSORY

$A\beta$ A-beta

LIGHT TOUCH

$A\delta$

A-delta

PAIN - FAST

EXCELLENT LOCALIZATION

>90% REACH SENSORY CORTEX

Diminish in function after injury

C-Type

PAIN - SLOW

POOR LOCALIZATION

<10% REACH SENSORY CORTEX

Continue functioning

AXON-II

Pain-Fiber Nerve Conduction Study (NCS)

95% of pain patients are candidates for pain fiber conduction studies.

Non-neurogenic etiologies are responsible for pain symptoms in approximately 10% of cases. Causes include such disorders as muscle, ligament, joint capsule injuries, visceral pain or cancer.

AXON-II

100% Statistical Sensitivity

The patient is his own control so sensitivity statistically approaches 100% compared to a bell-shaped curve with 62% sensitivity.

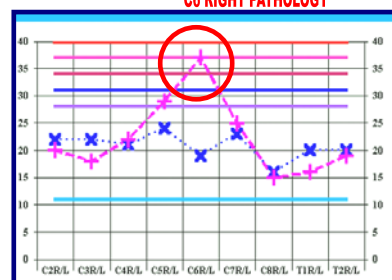
VIDEO & STUDIES

VIDEO - www.sensorymedicine.org - Click on **AASM VIDEO**

Studies - www.paindx.net - Click on **STUDIES**

How AXON-II Detects Nerve Injury

Guyton explains that following injury A-delta function diminishes while poor localizing C-fibers continue to fire or up-regulate. Quote: "This explains why so many patients have serious difficulty localizing the source of pain." So 43% of pain patients become chronic and 50%+ of back surgeries fail. Since A-delta fibers always diminish in function, using a signal tuned to these fibers detects pathology by finding the nerve requiring the most voltage to cause conduction.



Software can be used with any computer. The computer cart and printer are sold separately.