

Neurometer® NS3000®

Automated Sensory Nerve Test

Painless, Neuroselective Electrodiagnostic Neurostimulator



The Neurometer® **NS3000**® represents the state-of-the-art in non-invasive sensory nerve testing. Using the advanced sNCT/CPT evaluation procedure, each test quickly and accurately evaluates functioning of the unmyelinated, small myelinated and large myelinated fibers – at any cutaneous site. The **NS3000**® eliminates the need to conduct multiple types of tests and no special temperature, shielding or wiring is required. This patient controlled test is painless and very easy to administer and technicians are easily trained. Free evaluation software is included.

High Sensitivity

The sNCT/CPT procedure detects and quantifies all stages of neuropathy ranging from hyperesthesia to hypoesthesia and anesthesia. The built-in RCPT mode offers accelerated testing of selected distal sites.

High Reliability

The Neurometer® **NS3000**® uses a double blinded automated procedure to eliminate operator or patient influence (confirmed to $p < 0.006$). Test results are not effected by edema or normal variations in skin thickness or temperature, so all measures can be evaluated through comparison to standardized, clinically established ranges of normative measures.

Test Any Cutaneous Site

Tests can be conducted on the face, the tips of the fingers or toes or at any cutaneous site on the body. Testing distal sites allows the earliest detection of dying back neuropathies. The painless stimulus allows testing on sites in sensitive areas like the face or genitalia.

Painless Neuroselective Stimulus

Each **NS3000**® procedure uses three painless neuroselective stimuli to selectively evaluate both large and small fibers. The painless nature of the test encourages patient compliance with serial evaluations and allows testing of highly sensitive areas of the body. It is ideal for testing children and others adverse to the discomfort associated with traditional electrodiagnostic tests.

Reliable, Accurate & Portable

The **NS3000**® system is self calibrating and has a built-in procedure that assures the output stimulus and cable assembly are functioning properly and without distortion prior to examinations. The system is powered by a rechargeable battery and comes in a rugged carrying case for convenient testing almost anywhere.

Replaces Other Procedures

The Neurometer® **NS3000**® is the ideal replacement for imprecise, subjective tests using pinwheels and tuning forks and for older quantitative tests using vibratory (VT) or thermal (TT) stimuli or that measure velocity (sNCV).

Examination Features	sNCT/ CPT	sNCV	VT TT
Evaluates Large and Small Fibers	✓		
Measures Hyper & Hypoesthesia	✓		
Differentiates Polyneuropathy, Radiculopathy & Compressive Neuropathy. Axonal vs Demyelinat.	✓		
Unaffected by Skin Thickness, Temperature, Bone Conduction	✓		
Standardized Healthy Measures	✓		
Painless, Non-Invasive	✓		✓
Evaluates Carpal Tunnel	✓	✓	

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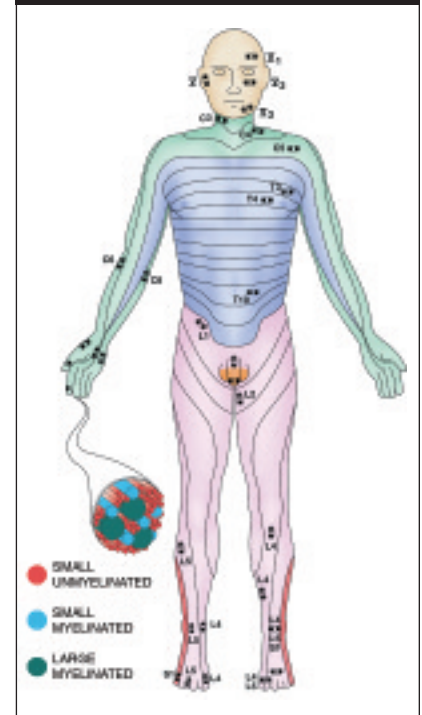
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Clinical Applications

The Neurometer® **NS3000**® can evaluate all three major subpopulations of sensory nerve fibers at almost any cutaneous site on the body. More than 350 peer reviewed publications document the extreme sensitivity and reliability of the test, and its ease of use, portability and painless stimulus has made it the ideal neurodiagnostic tool for a wide range of specialties including:

Neurology
Oncology
Urology
Endocrinology
Nephrology
Neuro & Orthopedic Surgery
Sports Medicine
Occupational Medicine
Pain Medicine
Pharmacology & Toxicology
Plastic Reconstructive Surgery
Physical Medicine & Rehabilitation
Dentistry
Chiropractic
Podiatry

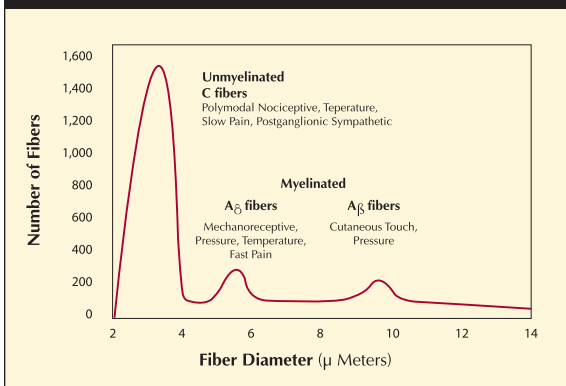
Standardized Test Sites



Evaluation Software

The Neurometer® **NS3000**® (sensory Nerve Conduction Threshold) procedure generates neuroselective CPT (Current Perception Threshold) values that quantify the functioning of the small unmyelinated and large and small myelinated fibers comprising the sensory nerve. Free Neuval® CPT Evaluation and Database software evaluates CPT measures through comparison to clinically established ranges of normative values.

Sensory Nerve Fiber Distribution



Technical Specifications

Control: Microprocessor
Size: 16" (L), 9.5" (W), 3.5" (H)
Weight: 8.5 lbs. (3.86 kg)
Power: Rechargeable Internal Battery
Output Current: 0-10mA Constant AC
Output Frequency: 2000Hz, 250Hz, 5Hz
Resolution: 0-40 μ A
Calibration: Digital Quartz