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SUDOSCAN

A NEW TOOL FOR ASSESSING PERIPHERAL AUTONOMIC NEUROPATHY

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SUDOSCAN DETECTS SMALL FIBER NEUROPATHY





ESC was significantly reduced in the hands and feet among neuropathy patients compared to control subjects

ESC: Electrochemical Sweat Conductance (SUDOSCAN)

SUDOSCAN CORRELATES SIGNIFICANTLY WITH PATIENT Symptoms and signs

Foot and hands ESC correlated with pain assessed by visual analog pain scale

Foot and hands ESC correlated with symptoms measured using the questionnaire component of the MNSI

	Foot ESC	Hand ESC	IENFD (distal leg)
Pain (VAS)	339 p<0.05	396 p<0.02	NS
Symptoms (MNSI)	420 p<0.015	469 p<0.006	NS
Signs (UENS)	356 p<0.039	NS	NS
Sureal Amplitude	.484 p<0.005	NS	.508 p<0.019
Peroneal Motor CV	NS	NS	.484 p<0.03

IENFD: Intraepidermal Nerve Fiber Density from a skin biopsy

MNSI: Michigan Neuropathy Screening Instrument – questionnaire of neuropathy symptoms

UENS: Utah Early Neuropathy Score - a scale of neuropathy signs and symptoms

SUDOSCAN HAS COMPARABLE DIAGNOSTIC PERFORMANCE TO IENFD AND QSART IN DETECTING NEUROPATHY

IENFD distal leg and foot QSART sweat volumes had similar area under the curve (AUC) to ESC values

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IENFD: Intraepidermal Nerve Fiber Density from a skin biopsy QSART: Quantitative Sudomotor Axon Reflex Testing – sudomotor function testing

GOAL OF THE STUDY

- > To evaluate the diagnostic performance of SUDOSCAN in a population of patients referred for possible peripheral neuropathy, including patients with both diabetic and non-diabetic neuropathies.
- > These results are extracted from a study conducted at the University of Utah Department of Neurology, Salt Lake City, Utah.