Epi-Scan P100

Summary

The development of the Epi-Scan P100 has been based on the combined principles of instrumentation and the electrophysiological effects of innervation of the sweat glands. This provides a noninvasive, painless instrument system for the quantitative measurements of Selective Tissue Conductance, which has been operationally defined as:

...the relative ability of biological tissue to conduct a weak (DC) electrical signal, which is applied for a *selected* period of time to a *selected*, limited and restricted surface area of that tissue...

And which shares those same neuroanatomic reflex pathways as other tests of sympathetic skin activity or regional perspiration levels.

Who We Are

About Us

We are a privately held company based in Tulsa, OK. We specialize in sudomotor technology and partner with the medical field to improve the methods and documentation of diagnosing galvanic skin tissue responses.

Contact Us

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EPI-SCAN P100
Tulsa, OK

EPI-SCAN P100

Informational Brochure

What is the Epi-Scan P100?

Our Technology

The Epi-Scan P100 is the first and only working device that can indicate pain on a numerical scale. By incorporating sensory technology into a device that measures the rate of conductivity in biological tissue, we can output a visual representation of pain on a scale based on 1- 80,000 nS/cm^2 (nS = nano Siemens, or the rate of conductivity in the body).

Get the exact results you want

The Epi-Scan P100 DC test current at the electrode is a very low constant current of the maximum of 10 uA distributed over the300mm^2 area of the electrode for an average of a maximum of 0.03 uA/mm^2. This aspect of Selective Tissue conductance technology is known as *spatial selectivity*.

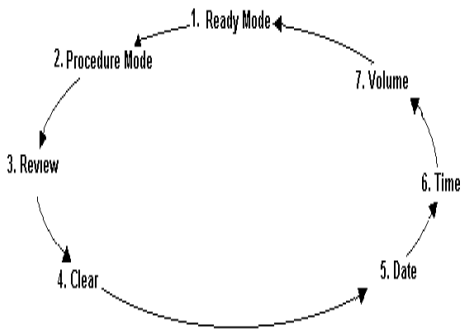
Diagnosing Sudomotor Response

No more "1-10" when rating pain. Pain is almost always measured by asking for patient feedback. The person generally tries to verbally describe his or her pain in order to allow the medical professional to preliminary diagnose the patient's condition and suggest a suitable treatment. Such varying, highly subjective descriptions of pain presented to a diagnostician can complicate a quick and exact identification of a person's ailment or injury. With the Epi-Scan P100 you will not have to rely on subjective patient feedback for pain determination.

Research

Our research is currently under way with the following doctors and clinics.

- *Orthopedic Surgeon – Indiana*
- *Associate professor of orthopedics Harvard School of Medicine*
- *Orthopedic Surgeon – Kansas City*
- *Mayo Clinic*



Device Usage Process

Is the test painful?

No. The only unusual feelings reported during standard test procedures has been that of a cool feeling when the electrode is first placed against the subject's warm skin. This feeling can be avoided by keeping the P100 at normal room temperature for at least 15-30 minutes before starting the test.

Codes and Regulations

Epi-Scan instruments have been classified by the Health and Human Services (HHS) / Food and DRug Administration (FDA) as Regulatory Class II non-invasive devices with 510(k) listing.

Have one of the first ones in the world and receive a new model in 5-7 months, for no additional charge.