Quantitative Sudomotor Axon Reflex Test (QSART)

Quantitative Sudomotor Axon Reflex Test (QSART) is a test to evaluate the integrity of the postganglionic sudomotor system along the axon reflex to define the distribution of sweat loss. This is accomplished by the release of acetylcholine into the skin which activates receptors on the eccrine sweat gland. The sweat response is recorded from four sites (forearm and 3 lower extremity sites) and assessed for deficits.

The QSART is a test that measures the autonomic nerves that control sweating. The test is useful in assessing autonomic nervous system disorders, peripheral neuropathies and some types of pain disorders. The test requires a mild electrical stimulation on the skin called iontophoresis, which allows acetylcholine, a naturally occurring chemical, to stimulate sweat glands. The QSART measures the volume of sweat produced by this stimulation.

**QSART is used to diagnose:**

- Painful, small fiber neuropathy when nerve conduction test results are normal
- Disturbances of the autonomic nervous system, which controls the sweat glands, heart, digestive system, other organs, and blood pressure
- Complex pain disorders
- Diabetic neuropathies
- Enzyme disorders
- RSD (Reflex Sympathetic Dystrophy, Complex Regional Pain Syndrome)
- Dysautonomia
- Pharmaceutical agents
- Cosmetics/Consumer goods testing
- Dermatological studies
- Multiple System Atrophy (Shy-Drager syndrome)
**Sympathetic Skin Response (SSR)**

Sympathetic Skin Response (SSR) measures the change of the electrical potential of the skin. The recorded skin potential comes from the activated eccrine sweat gland. The amplitude and configuration are adjusted by sweat gland epithelium and the overlying epidermis.

**Sudomotor Electrochemical Sweat Conductance**

QBioscan provides information that determines the cardiometabolic risk in patients. The test, equivalent to a galvanic skin response stress test, measures the sweat glands' capacity to release chloride ions in response to an electrochemical activation.

The advantages: QBioscan does not require any patient preparation, such as blood drawing or fasting; it is non-invasive and delivers immediate results, with findings that are ready to use after a short and uncomplicated test of merely 2 minutes. QBioscan has been developed for use by general practitioners, pharmacists, cardiologists and neurologists to assist in the effective screening of cardiometabolic risk in patients.

**Bioelectric Impedance Analysis (BIA)**

As a physician, you know that the Body Mass Index (BMI) by itself is not sufficient to analyze a patient's health status and body composition thoroughly. Fat, muscle, water and other important indicators of underlying medical conditions are not considered in the BMI. Reason enough for Medeia to develop exactly that - a new device that measures patients' body compositions - the "BCA" (Body Composition Analyzer). As a component of the QBioscan, it produces all these measurements and values at medical sciences’ highest standard levels.

As a result, now a tool exists that, in less than 20 seconds, can determine fat mass, extracellular and intracellular water, and skeletal muscle mass, all fundamental assessment components to aid an accurate patient evaluation. Simple, user friendly, and with medical precision, this device can conveniently be integrated into your examination routine.