

## **WHAT IS THE NEUROINFINITI?**

NeuroInfiniti is the worlds most sophisticated and flexible chiropractic assessment and biofeedback system. It is a major Improvement over older technology, providing vastly more information, combined with ease of use. Not only does it provide SEMG, but it also provides you with the ability to perform stress assessments, Neurofeedback and biofeedback. All supported with sophisticated multimedia software, pre-set protocols and detailed reports to improve the quality of patient care.

## **WHAT IS THE SRE?**

The Stress Response Evaluation (SRE) is an effective and accurate method of measuring your patients physiological stress response. It is a 12 minute computerized test, which a totally non-invasive exam is using sensors that are attached to your skin in such areas as your shoulder muscles, the top of your head, your forearms, and your hands. There are no needles or any form of skin penetration. From this computerized test, we can compare your neurological response and recovery to three types of stress challenges.

## **WHAT IS A STRESS RESPONSE?**

All living creatures have an awareness of a threat to their existence. Humans have a built in warning system that alerts them to all levels of threats. Our 5 senses alert us to danger even when we are totally unaware of it. Bad smells, unusual sounds, foul tastes are just some of these warning systems. The subconscious is even more sensitive and will often trigger a protection response of which we are unaware consciously such as an increase in blood pressure, heart rate or respiration.

The nervous system is divided into two main divisions - one keeps everything running smoothly and in balance - the other is for defense and protection and doesn't care about balance, its only purpose being to offer extreme responses to preserve life. The first is called the Para-Sympathetic; the second the Sympathetic; and both are branches of the Autonomic Nervous system.

Stress is a threat and even low levels of stress over time can have drastic results in the health of an individual. What many don't understand is that "STRESS" is a response to a "STRESSOR" and throughout a lifetime we will always be confronting stressors. The challenge lies in several areas: the intensity of the stressor, the duration of the stressor, the level of previous damage

done to the stress response system and the ability of the system to return to a normal balanced state.

As current medical research is now claiming that 90% of all illnesses are the result of a lack of the body's ability to reestablish normal balance, it only makes sense that we learn what must be done to bring the body back into correct neurological responses.

As it is critical for good health to have a nervous system which can adapt to stressors and recovery correctly then it only makes sense that we have a method which has the ability to measure these action/reactions. It is much easier to keep the system in balance than to attempt to correct it once it has already been damaged.

NeuroInfiniti conforms to strict ISO 13485 and CE quality standards and conforms to all relevant medical regulatory requirements (FDA and Health Canada). It's designed specifically for the purpose of clinical applications - unlike other systems that are labeled for personal, educational or industrial use.

NeuroInfiniti hardware and software were custom-designed by Thought Technology, the world's largest Biofeedback manufacturer, which for over 35 years has designed and marketed leading edge hardware and software. An important part of its 53 employees is a million dollars/year development team, comprised of 8 software programmers and testers, 10 hardware engineers and technicians, and 6 quality assurance professionals, to assure its products meet strict medical standards worldwide.

Alongside the examination protocol the NeuroInfiniti also includes a full system of Neurofeedback and Biofeedback to help augment your care.

## **NEUROFEEDBACK APPLICATION**

The NeuroInfiniti includes a complete Neurofeedback system using single or dual leads that can be placed on the area that is to be trained using the standard Ten 20 Chart. Here is how it works - Individuals are hooked up to a computer using wires and sensors, and the computer records their brainwave activity information about these brainwaves is monitored by the software. Once you have the thresholds set to the specific brainwave pattern that you are looking to train, the software automatically detects when the brainwaves are properly ordered and it feeds that information back to the patient. This feedback appears in the form of a game, movie, or sound which signals the patient that the brainwaves are becoming more ordered. For example, the patient may be watching a movie that gets bright and loud when the correct

brainwave pattern is being produces, and gets dark and low when the pattern is dysregulated. Over 10 to 20 sessions the patient's brain learns how to gain voluntary control of the pattern. Over 40 years of research has demonstrated that correcting brain wave patterns results in the alleviation of many neurological conditions such as ADHD, Insomnia, Migraine, Tension Headache, Autism / Asperger's, TBI, PTSD, and many others.

**THE NEUROINFINITI ALSO INCLUDES BioFun GAMES** - Captivating Games for Biofeedback, Neurofeedback, and Muscle Rehabilitation. BioFun Games make physiological training fun and challenging!

### **BIOFEEDBACK APPLICATION**

Also included with the NeuroInfiniti is a complete Biofeedback system that allows you to train the patient on the other areas that we measure with the SRE Exam giving you the ability to train a patient to learn a **healthier breathing pattern**, train them for better **Heart Rate Variability**, **Neuromuscular Re-Education for Scoliosis or TMJ issues**, **hand temperature and Galvanic Skin Response or any muscle imbalance**.

### **sEMG APPLICATION**

The NeuroInfiniti also has built in the ability to do full sEMG scanning static and dynamic with protocols based on the AMA Standard.

**COMBINES CORTICAL PATTERNS AND LIMBIC SYSTEM RESPONSES.**

**ALL THIS IS ONE INSTRUMENT . . . HOW DOES IT GET ANY BETTER THAN THIS?**