



Summary of Effects of Electronic Signal Intonation Treatment

Pursuant to your request for additional information concerning some of the known therapeutic effects provided by Electronic Signal Intonation (ESI), I am pleased to offer the following information for your review. As you know, I have been working together with a few other scientists and physicians to put together a book that is more informative about the science behind clinical electroanalgesic medicine.

The Outcome Medical devices (NEO GeneSys-series) are cleared by the FDA for a number of medical indications (a copy of the FDA 510(k) clearance along with device indications and contraindications is attached for your review). Unlike other electromedical devices used primarily by physical therapists and chiropractors in the United States, these devices are engineered primarily for the prescribing physician (MD, DO) involved in clinical pain management. Although these devices and their effects would probably have a closer relationship to surgically implanted electronic stimulators, they effectively deliver their therapeutic energy non-invasively with virtually no undesired side effects.

Outcome medical devices produce and deliver higher carrier frequencies in order to pass through the skin very efficiently without any patient discomfort. The device produces and delivers electronic bio-signals than can be used to imitate, facilitate or exhaust the human bio-system. Specific parameters are employed that influence the target tissue at the cellular level.

Computer-assisted electronic frequency generators are used to produce stimulation activity that not only offer different therapies of physical medicine (therapy for myofascial pain), but also bring about a potent analgesic pain relieving effect by calming down nerve pain (neuropathy/neuralgia)!

Without piercing the skin, physicians can now administer effective nerve pain treatments to reduce the hyper-irritated state of the nerves. This is accomplished by placing specific surface electrodes on the skin and introducing very specific bioelectric signal impulses to produce an electroanalgesic pain fiber interruption effect. The strength of this targeted procedural treatment field reduces the ability of the affected nerves to transmit pain signals.

It is postulated that long-term relief is accomplished by stimulating the body's own chemical messengers within the cells to correct or normalize their function. It is known to the medical community that injury and/or disease may cause the cells to not work efficiently in the necessary elimination of metabolic waste products (metabolites), which can directly effect the circulation from bringing in necessary cellular oxygen and nutrients. This has a direct affect on the immune system response and the ability to heal (gap-junction response). It is hypothesized that the cells are so overwhelmed by the metabolic chemical imbalance that they cannot self regulate.

It has been shown that specific Outcome Medical electroanalgesic treatments will produce a sustained cell membrane depolarization, which has a direct effect on the increase or normalization of cyclic Adenosine Monophosphate (cAMP). This cAMP is the second messenger that directs most cell-specific activity. With a normalized level of cAMP, the cells will return to their normal activity providing a necessary intra-cellular/extra-cellular relationship.