



ElectroAcuscope / Myopulse Therapy

Assessment devices such as the Dermatron, developed by Voll, used sensors to measure the electrical resistance (impedance) at acupoints. Higher than normal impedance at a specific acupoint indicated irritation or inflammation in the corresponding organ, while lower than normal impedance at the acupoint indicated degeneration or fatigue. In this way, the Dermatron provided a means of screening for the existence of disease. It was also used to test the energetic effects of certain remedies. For example, when a patient takes a homeopathic dilution prescribed for his disease, the EAV reading returns to normal. EAV screening resembles an electronic version of kinesiology, a muscle testing method that assists medical doctors, chiropractor, nutritionist, and homeopathic therapist to identify what weakens or strengthens the muscular system.

Devices like the Dermatron are not legal for use in the United States. Instead the information that is part of this pioneering technique is applied for use by bioelectric stimulation devices such as the Electro Acuscope which does have FDA class II approval.

The Electro-Acuscope is a treatment device that uses extremely low-frequency current microamperage rather than the milliamperage used by standard TNS devices. Microamperage is used stimulate tissue repair. Rather than delivering a premeasured current, the device matches current delivery to the resistance sensed in

the damaged tissue; such self regulation facilitates the repair process.

This treatment works at the cellular level. Microcurrent stimulation is believed to induce extracellular calcium ions to enter the cell through pores in the cell membrane (called voltage-sensitive calcium ion channels). Higher levels of calcium, in turn, encourage increased synthesis of adenosine triphosphate, which activates mechanisms that control deoxyribonucleic acid and protein synthesis. The result is an increase in the rate of cellular repair and replication.

The Electro Acuscope/Myopulse is a unique and advanced electro-therapy instrument that combines modulated micro-current carrier wave frequencies and bio-resonance feedback technique into one treatment modality. It uses either amplitude modulated (AM) waves for treating remote locations and frequency modulated (FM) waves for an exceptionally clean signal in difficult complicated regions that have interference fields. It can be applied to acupuncture points, trigger points, or directly on damaged tissue. It does not use needles like some acupuncture modalities. Instead it uses a highly conductive coupling agent on treatment pads or probes to contact the skin so pressure is not necessary to electrically couple with the tissue.

The Electro Accuscope uses a combination of assessment and treatment and works under the assumption that all biological processes are bioelectromagnetic and can be recognized by a distinctive, complex waveform. A smooth wave indicates health, and higher or lower wave deviations indicate disease. The Electro Accuscope collects electromagnetic signals directly from acupoints, manipulates and adjusts any aberrant wave forms to create normal waves, and then feeds these corrected waves back

into the patient through the same acupoints on microcurrent carrier waves. This device is a truly natural therapy because it uses specific wave information from the patient without introducing artificial or synthesized wave forms such as "current zapper devices". The carrier waves that carry the information from the tissue for assessment is truly innovative since the bio-information that is sought is below the Niquist noise levels of electronic instruments (thermal noise in electronic circuits). This is different from the MORA device which does not use these carrier waves. That is one of the reasons why the MORA device does not have FDA approval as a class II instrument and the Electro Acuscope does.

Because it combines different therapeutic methods into one modality it is cost effective to deliver the service. Some clinics charge for two modalities – micro-current and BRFT when two devices are used. This is unnecessary when using the Electro Acuscope. The carrier wave necessary to evaluate and transmit resonance frequencies has microcurrent healing properties which some studies suggest can accelerate protein and DNA synthesis by a factor of 2 to 7 times normal. It has the ability to select specific carrier wave frequencies to target specific organ tissue or regions of the body. This is extremely important in treating regions that have been injured and have open wounds. The probes can be placed in region remote to the injured tissue and still target the damaged region that may be covered with a dressing, bandage or a cast. In the case of a burn injury, it can provide a safe treatment without the risk of infecting an open wound.

The Electro Acuscope/Myopulse is a safe FDA approved class II medical instrument. When it is properly used, it painlessly accelerates tissue repair and; when

combined with other modalities such as hyperbaric oxygen and/or high dosage IV nutrition, it can assist the body with regeneration of damaged tissue such as in spinal cord injuries. The Electro Acuscope can also be used for neural therapy with or without procaine injection. It helps reset the autonomic nervous system imprints in tissue such as in reflex sympathetic dystrophy pain and atrophy. It is capable of facilitating transport of important nutrients into the cell as well as return irritated sensitive tissue to a state of rest. This rested state is not only where maximum healing occurs but regeneration as well. In research with rats, bioelectrical stimulation of acupuncture points has enhanced peripheral motor nerve regeneration and sensory nerve growth. There is also studies that show rats with damaged brain tissue will stimulate production of stem cells in a stress free environment. This does not occur in a stressed environment. The Electro Acuscope helps reduce the stress in the tissue (verified by spectral analysis). Our clinic has participated in spinal cord injury cases where significant recovery has occurred with this type of treatment.

The Electro Acuscope uses frequency specific microcurrent resonance and can be used for auriculotherapy using acupuncture reflex points on the ear without using needles. Assessment of information after the point is located is done internally by the circuitry and does not require interpretation by the operator. Devices that use this method assess electrical resistance at acupoints. Higher than normal resistance at a specific acupoint indicates irritation or inflammation in the corresponding organ, while lower than normal resistance at the acupoint is indicative of degeneration or fatigue. Although this information might be of some benefit to the practitioner, the FDA does not allow a device to assess, giving

diagnostic information and the treat the point without have control and doctor intervention. (Medical instruments do not have a license to practice medicine). It is impossible to conform to FDA guidelines and deliver an effective treatment. After the point is assessed, the therapeutic component must be applied within 10 microseconds to provide selective and specific treatment for the information that was assessed. Humans cannot work as fast as an electronic device. In this authors opinion the FDA needs to adjust its guidelines for the age of computers. Until that occurs the Electro Acuscope simply performs the task that is needed without providing diagnostic information to the operator.

The Electro Acuscope has a bioelectrical acupuncture assessment tool. It is used to locate and treat acupoints and trigger points (any point responding with pain upon palpation). Treatment with this locator-stimulator tool calls for a high degree of interaction between the patient and a well-trained practitioner.

Like traditional Chinese acupuncture, the Electro Acuscope can be used to provide treatment for a patient's condition. In this mode it measures and manipulates the flow of energy along the meridians at specific acupoints (EAV points). A steady flow indicates health, while an impaired flow suggests disease, with different organs associated with specific meridians. Over 2,000 acupoint have been identified for treatment with electro-acupuncture devices.

The Electro Acuscope can deliver Nogier auriculotherapy using bio-specific frequencies of energy to treat acupoints on the ear. Similar to reflexology, in which treatment is administered through the foot, auriculotherapy operates on the concept that the entire body and all its organs can be

identified at different points on the ear. Although Auriculotherapy is traditionally practiced with acupuncture needles, the Electro Acuscope uses a noninvasive hand held probe with a special calibrated spring loaded tip to correctly interface with the acupoint.

The Electro Acuscope is particularly suited as a Nogier auriculotherapy device to treat the patient. It has specific Nogier resonance frequencies that can be manipulated by the operator. When used for auricular therapy pre-prescribed protocols can be used or the practitioner can take a radial pulse during the treatment. The increase or decrease in radial pulse amplitude, called the vascular autonomic signal (VAS), and is used as an indicator for the progression of treatment. This mode of treatment requires considerable training.

Considerable training is required before using this device. There are prescribe protocols for this treatment and many conditions respond favorably with this technique. Therapeutic applications include addictions, dyslexia, pain control (acute or chronic pain, back pain, and pain from trauma), tinnitus, Parkinsonian tremors and joint pain of Rhematoid arthritis. Electrodermal devices are not used to treat diseases, instead they are used to do not treat the physiological stress in tissue which promotes healing. In treating diseases electro-modalities are adjunctive and not curative. It would be contraindicated to use an Electro Acuscope to treat a life threatening condition such as renal insufficiency and heart disease.

The Electro Acusope can be used for point massage and method is popular as a treatment in sports medicine, treating musculoskeletal injuries, such as lumbosacral sprains, shoulder strains,

whiplash, trauma, temporomandibular joint pain, bursitis, carpal tunnel syndrome, and muscle spasms. It's also used for arthritis, bruises, herpes zoster infections, local skin infections and skin ulcerations, chronic fatigue syndrome, migraines, neuralgia, surgical incisions, and palliative care of a ruptured disk in patients unwilling or unable to undergo surgery. It is particularly helpful in reducing post-surgical pain and inflammatory complications such as excess scarring.

When used to support Chiropractic or Osteopathic spinal manipulation it helps relax the tissue before the adjustment to make the manipulative procedure as gentle and as painless as possible. It also improves the healing of the joint and surrounding tissue so fewer treatments are necessary to control pain or to stabilize joint subluxation reduction.

The Electro Acuscope can correctly identify and discriminate chronic degenerative conditions vs. acute inflammatory conditions and properly program the treatment without guess work by the instruments operator. This is particularly important when doing meridian or reflex point therapy on acupuncture points since the Electro Acuscope properly applies tonification or sedation to the reflex point without guess work and without puncturing the tissue with needles.

The Electro Acuscope significantly reduces pain in chronic as well as acute pain conditions. Our clinic personally did research and publication using infrared thermography to evaluate the changes in pain patterns when the Electro Acuscope was used in a variety of painful conditions. It helps restore circulation thereby bringing nutrition and oxygen to damaged and scarred tissue. Therefore it helps to reduce

scar tissue complications of injury or surgery.

Controlled studies have demonstrated the benefits of bioelectrical acupuncture to treat postoperative pain, chemotherapy-induced illness, and renal colic and to induce contractions in post-term pregnancy.

There are many indications for Electro Acuscope/Myopulse therapy.

Inflammatory conditions:

Tendinitis / bursitis, degenerative arthritis, acute inflammatory arthritis such as rheumatoid arthritis, tennis elbow, carpal tunnel syndrome.

Chronic pain conditions:

Fibromyalgia, Reflex Sympathetic Dystrophy (RSD)

Neuralgia (nerve pain):

Radiating pain in arms or legs, headache pain

Myalgias (muscle pain):

Fibromyalgia, facial pain associated with TMJ syndrome, trigger point/myofascial pain syndromes (overload contracture reflexes)

Acute Injuries:

Sprains (torn or overstretched ligaments), strains (torn or overstretched muscles), post-surgery pain and inflammation such as post joint replacement or arthroscopic surgery, fractures