

Another unique feature of the Acuscope is the micro-chip circuitry that is designed to scan and monitor the tissue. Other electrical stimulation units gather no feedback and produce only a simple fixed output according to preset specifications. The Acuscope reads neurological impedance (resistance) in the circuit created through the tissue placed between the two probes. Based on the information it gathers, the unit is programmed to calculate appropriate corrective waveforms. Acuscope used on horses are specially calibrated to take into account their level of conductivity which is higher than humans. Computerized circuitry picks up abnormalities in nerve fiber impulses (input) and modifies its infinitely variable square wave signal (output) appropriately. Its self-correcting mechanisms continually adjust the current until normal patterns are being conducted without resistance through the tissue between the probes. The readings then tell the therapist when an area has been successfully treated and the probes can be moved to another location. This feedback-modulated procedure eliminates the possibility of over-treatment or harm to the cells.

Remarkably, results are usually noticeable immediately, with continued improvement over the next few days. Within a week, most conditions will have progressed dramatically. Chronic conditions may take several treatments before initial results are observed; yet Acuscope treatments are known to resolve serious conditions, which would otherwise never improve. Enhanced alertness, calmness, definite changes in gait, coordination, and balance are typically some of the immediate results along with reductions of pain, swelling, and relief from muscle tightness. It has been consistently observed that the animal becomes extremely relaxed from this pain-free, non-intrusive procedure. A typical response by the horse during and after treatment is to lower his head, bend a rear leg, give a deep sigh of relaxation, lick and chew, and yawn.



Therapy session can take 10-30 minutes, depending upon how many areas are treated. For example, treatment of a tight neck or shoulder muscle with a roller bar may take approximately 12-15 minutes. A stiff or inflamed hind quarter with taped-on electrodes may take up to 20 minutes. A complicated condition with several areas of involvement requiring a variety of applications may take longer. However, it is well worth the effort.

Horses are started with an initial three treatments within a 72-hour period. This is to ensure a proper introduction to the therapy system, as well as create a strong base for long-term results. After the initial three treatments are completed a follow-up program is suggested depending on the needs of the individual horse.

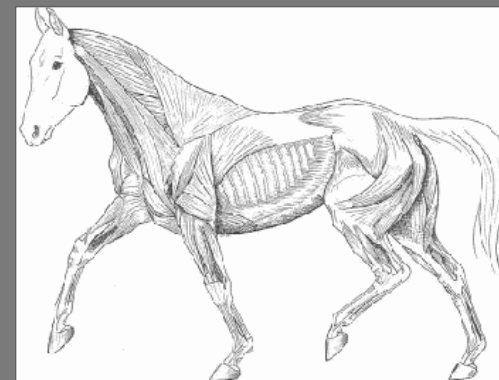
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ACUSCOPE THERAPY



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The Electro-Acuscope has been referred to as "the best kept secret in equine therapy". The instrument has successfully treated common equine problems such as pulled muscles and ligaments, inflammation, abscessed feet and nerve paralysis. It is particularly successful in relieving or greatly reducing the swelling and pain of tissue damage occurring from athletic injury. In addition, the Acuscope has proven effective in the treatment of conditions thought to be life threatening or crippling, such as laminitis, navicular problems, deep puncture wounds and deteriorating coffin bone.

The body is made up of a vast number of cells. In many ways these cells are like tiny batteries, storing and releasing energy, doing their work of taking in nutrients, releasing waste products, repairing and reproducing themselves, etc. Each cell, I like any battery, has a measurable electrical charge that must be maintained in order to function properly.

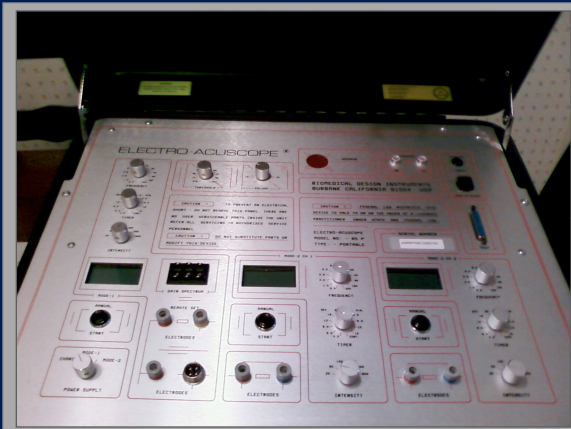
Animal Therapy System

At this point, the Acuscope is frequently introduced. Since the instrument has both feedback and therapeutic functions, it actually provides auditory and numerical readouts, which indicate the locations where tissue is damaged, unhealthy. Once abnormal areas are located, the Acuscope can then treat the tissue according to its needs. An experienced therapist can interpret the sounds and numbers, which reflect the amount of conductivity passing through the tissue between treatment probes, and can determine a course of therapy based upon these readings. The Acuscope readings tell the therapist where the problem is most severe; it can pinpoint precise areas of excessive heat and fluid in acutely damaged sites. It can also identify tissue that has become chronic, i.e., an area of deficiency in an energy depleted state. In addition, the Acuscope can help locate problem areas in other parts of the body that have become sore or painful as a result of compensating for the original cause.

Acuscope therapy is a modality applied primarily for pain relief, to improve soft tissue function, and to increase range of motion. The Acuscope differs from other electrical stimulation devices in that it delivers its treatment in micro-amps. Most nerve stimulation devices (ordinary TENS) produce milli-amperage current designed to bombard the tissue and simply block pain signals from reaching the brain. The Acuscope, in contrast, generates only the level of current required to gently encourage nerve and muscle fiber to return to conduction of normal electrical impulses. In contrast also, ordinary TENS devices provide only temporary relief, whereas a series of Acuscope treatments has a cumulative, long-term healing effect.

The Acuscope's therapeutic capabilities go well beyond the treatment of horses which are "off" or just "not quite right". Its advanced and sophisticated technology has been used extensively over the past twenty years, by and under the supervision of many veterinarians to deal with the most serious injuries and acute life threatening conditions of the equine athlete.

In numerous recent scientific studies, micro-current stimulation has been proven to have a profoundly beneficial effect of living tissue. Micro-amperage (below 1 milliamp) is the naturally occurring level of current generated by cells throughout the body. In technical terms, some of the benefits of micro-current stimulation at the cellular level are: opening of voltage-sensitive calcium ion channels, normalizing cell membrane potential, restoring the sodium pump function, enhancing protein synthesis, and increasing ATP production. With this in mind, it is easy to understand why supplying the kind of current naturally occurring in healthy tissue promotes regenerative metabolic activity.



Energy flows constantly between all cells throughout the electrical circuitry of the body. When damage or trauma occurs to living tissue, there is a disruption in the electrical capacity of the involved cells and after an initial surge, there results a measurable decrease in the production and flow of energy through the electrical network of the involved tissues.

This condition is generally accompanied by pain in the area and often results in the body's inability to completely repair itself. Thus, lengthy rest periods and inactivity are often prescribed in order to attain eventual restoration of normal function.

